

Clean Harbors Wichita, LLC 2549 North New York Avenue Wichita, KS 67219 316-269-7400 www.cleanharbors.com

August 7, 2008

Mr. Akhter Hossain Kansas Department of Health and Environment Bureau of Waste Management Curtis State Office Building 1000 SW Jackson Street, Suite 320 Topeka, KS 66612-1366

CERTIFIED MAIL# 7004 2890 0001 1687 3639

RE: Clean Harbors Wichita, LLC Part B
Tank Certification Statements

Dear Mr. Hossain,

Enclosed you will find two copies of third party tank certifications as part of the updated Part B renewal application for Clean Harbors Wichita, LLC.

The attached document should be inserted into Section E, Appendix E-A, Attachment 1.

If you have any questions, please contact me at 513-681-5738 extension 6382 or by email at crisenberym@cleanharbors.com.

Sincerely,

Michael Crisenbery, CHMM

Director, Environmental Compliance

Clean Harbors Environmental Services

Cc;

File

Christine Jump @ USEPA (1 copy) CERTIFIED MAIL# 7004 2890 0001 1687 3646

Matt Noble @ CLHB (1 copy)

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AUG 1 4 2008

"People and Technology Creating a Better Environment"





Industrial Services, Inc.

402 NW Business Park Lane, Riverside, MO 64150 Phone: 816/505-5578

Clean Harbors Wichita, KS facility Tank V-1 **Hazardous Waste Storage**

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-1 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-1 Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-1 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 7-7-82. According to the drawing, the heads and shell were constructed of SA 36 Carbon Steel. The tank has an overall height of 22' 3 1/2" tall and 8' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .125" in the bottom foot of the tank.. Thickness readings were consistent with the 3/16" nominal thickness noted on the drawing leaving an approximate thickness of .06" remaining. Giving reason for the plate welded on the external surface for added thickness and support. The welds that were accessible showed no signs of cracks or defects detrimental to use.

External:

The bottom of the shell has a plate welded from the bottom head to shell weld up with a plate approximately 12" wide. See picture for more detail. The paint on the shell has several failures. All nozzles have coating failures as well. No corrosion was noted on the outside surface.





Bottom Head:

Internal inspection:

Isolated pitting was noted throughout the bottom head with depths of .010" to .060". The nozzles were clean with no signs of deterioration. The nozzle weld is in good condition. Thickness readings were consistent with 1/4" SA36 Carbon Steel noted on drawing.

External:

Coating has several coating failures. No signs of leakage around nozzle.

Top Head:

External inspection only:

The head has several coating failures. Thickness readings were consistent with ¼" SA36 Carbon Steel noted on drawing. See drawings for thickness readings.

Tank vertical supports:

The supports have a concrete coating that show signs that repairs have been made to fix spalling, chips and cracks.

Recommendations:

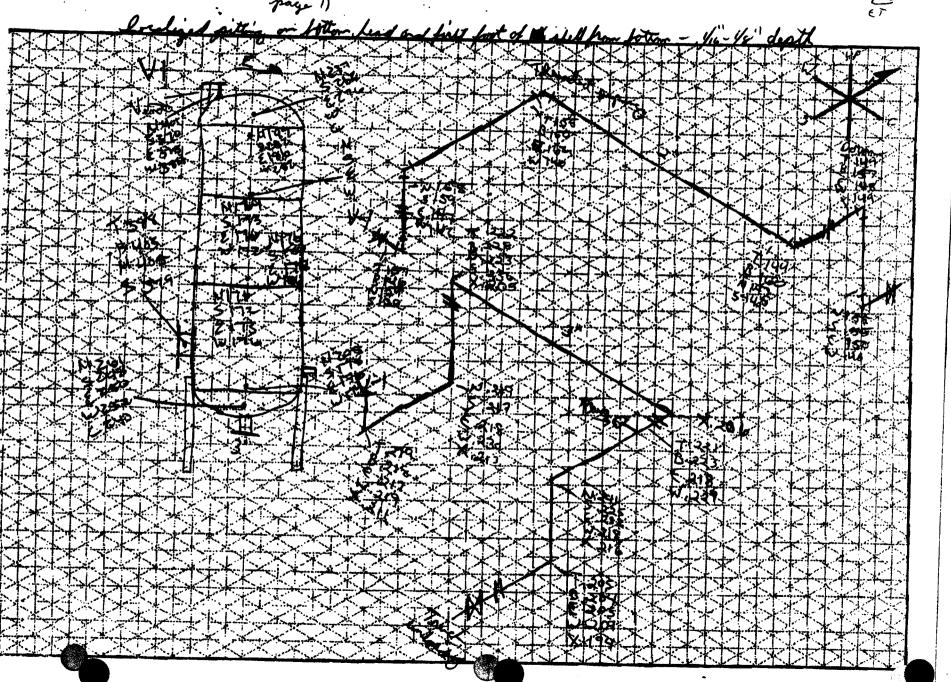
Have engineering study of external patch be performed to determine acceptability of repair to pitted areas. The coating on the vessel be repaired and repainted as required.

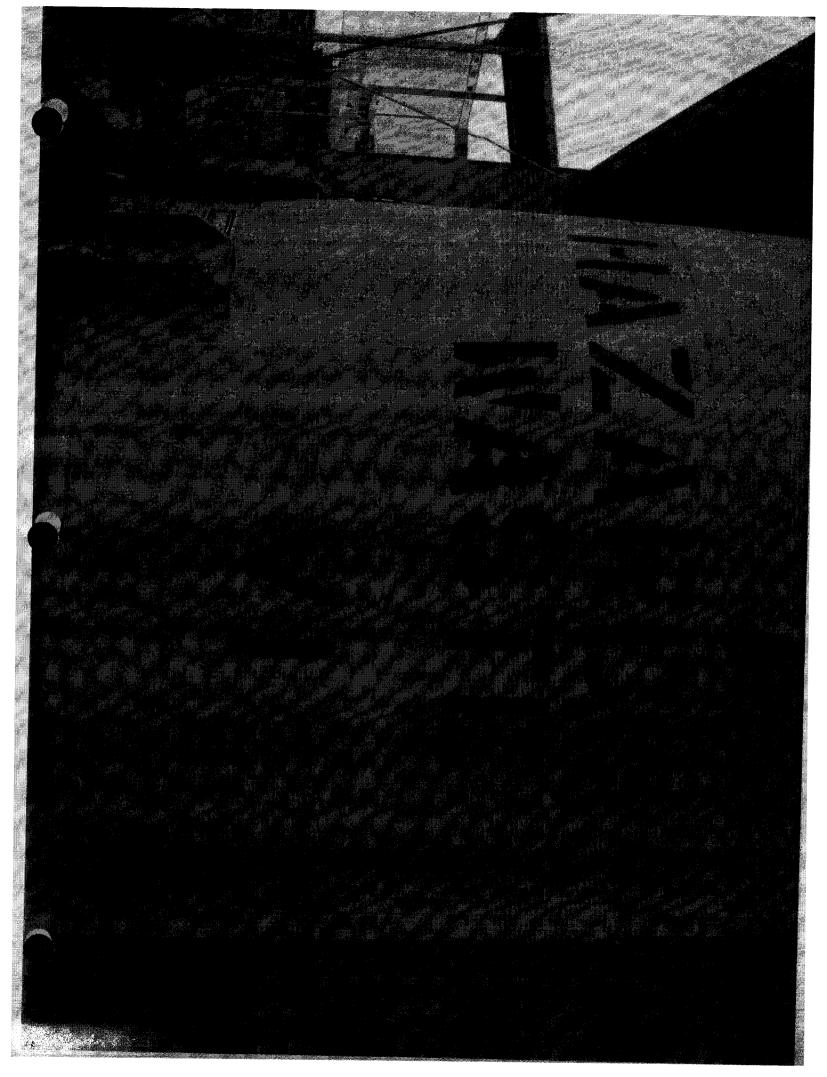
Thickness readings taken by David Zeller and Ethan Towne.

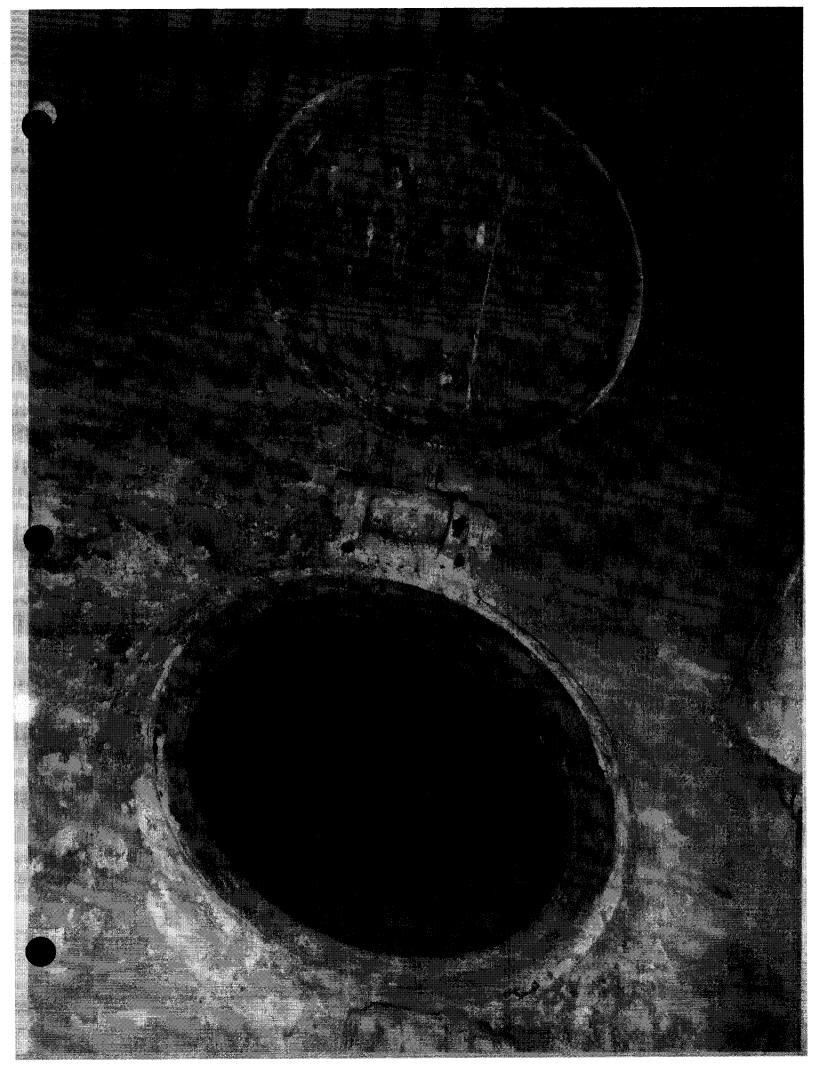
API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.

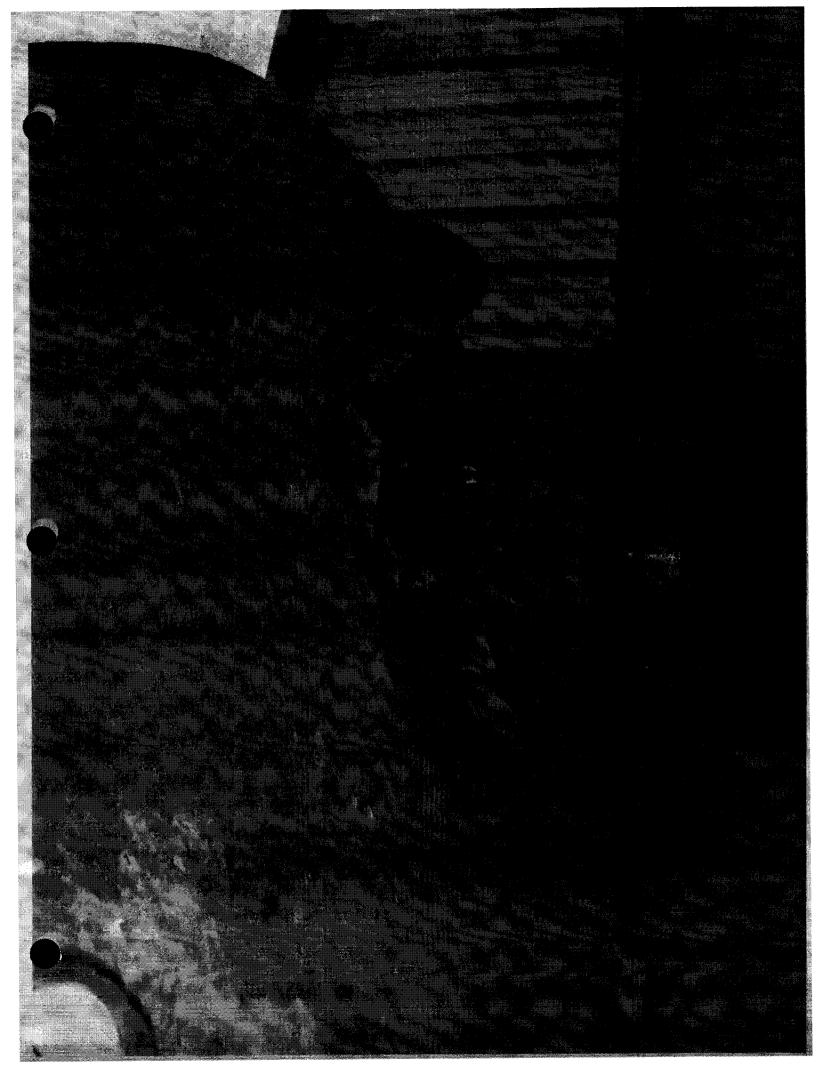


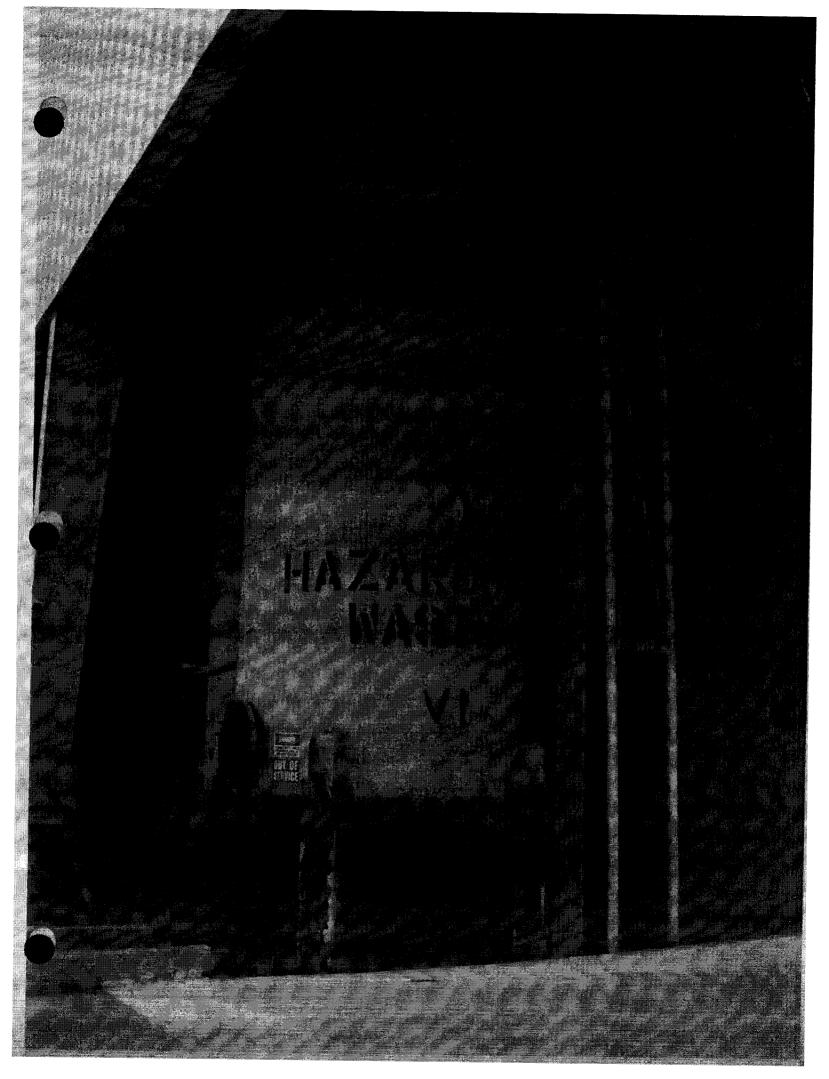
Industrial Services, Inc. 6-18-08 (1) Ledind sitting on Atton land and hist best of the sull ham bottom - Vii-Vi' death

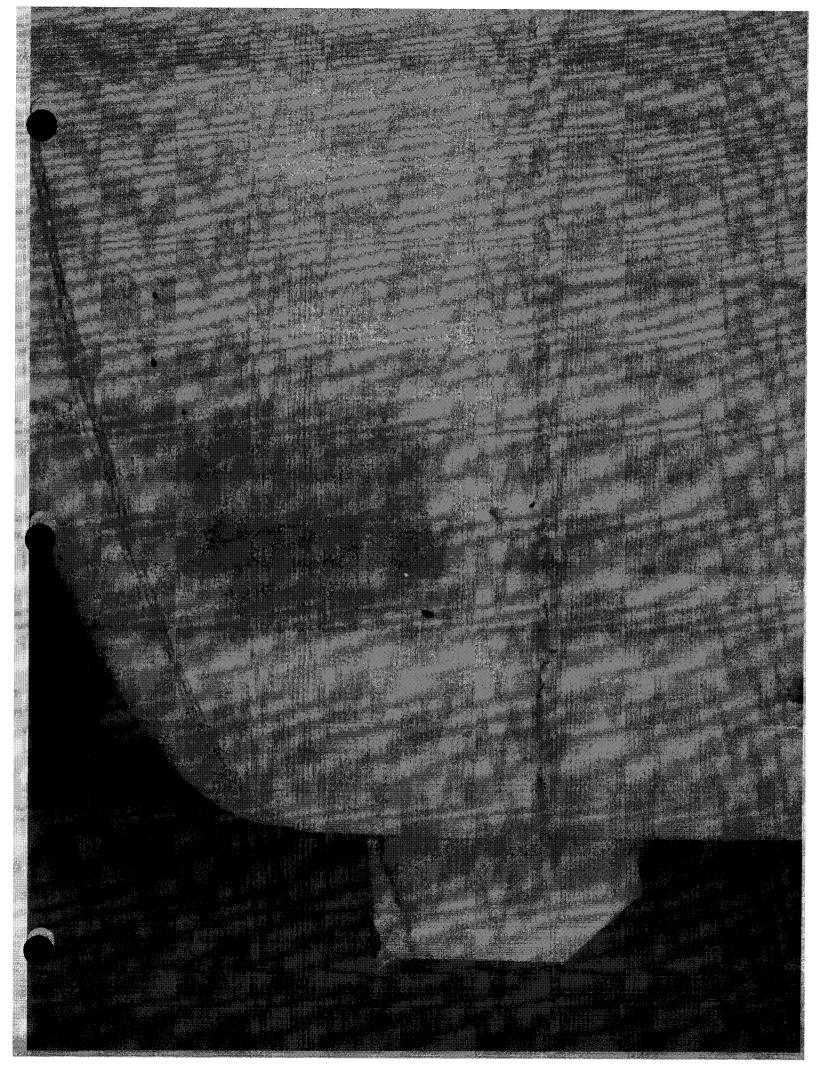


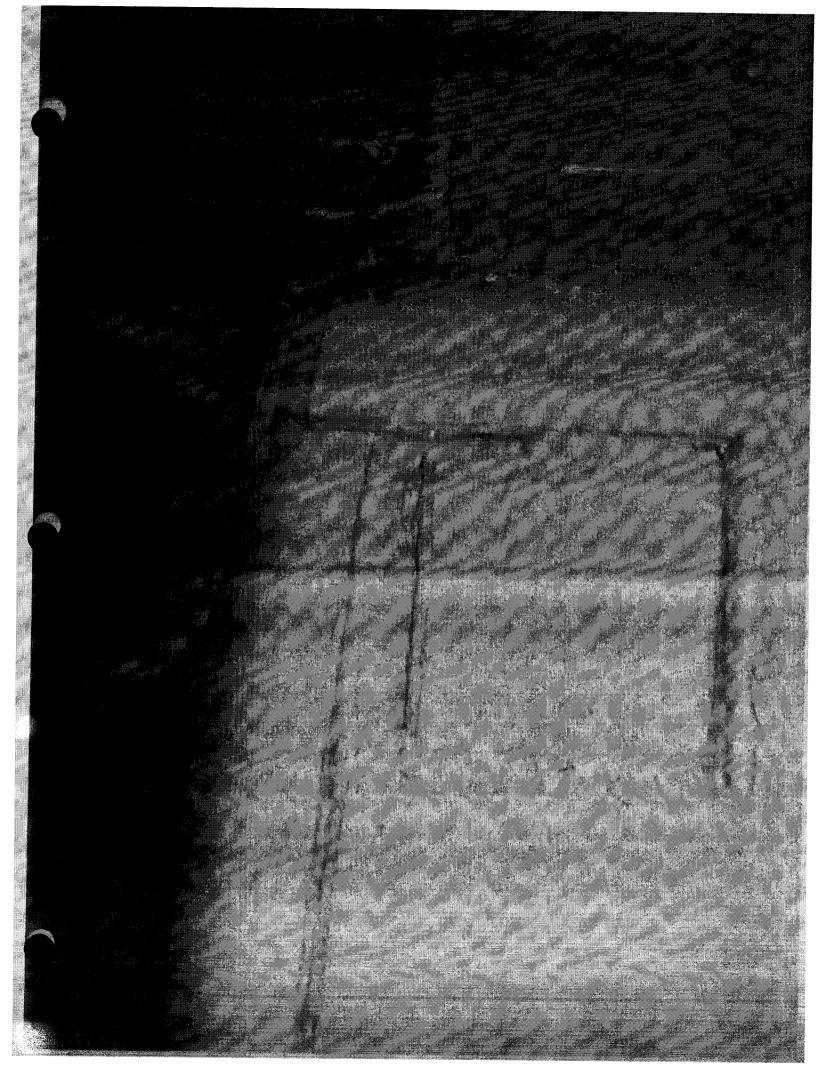




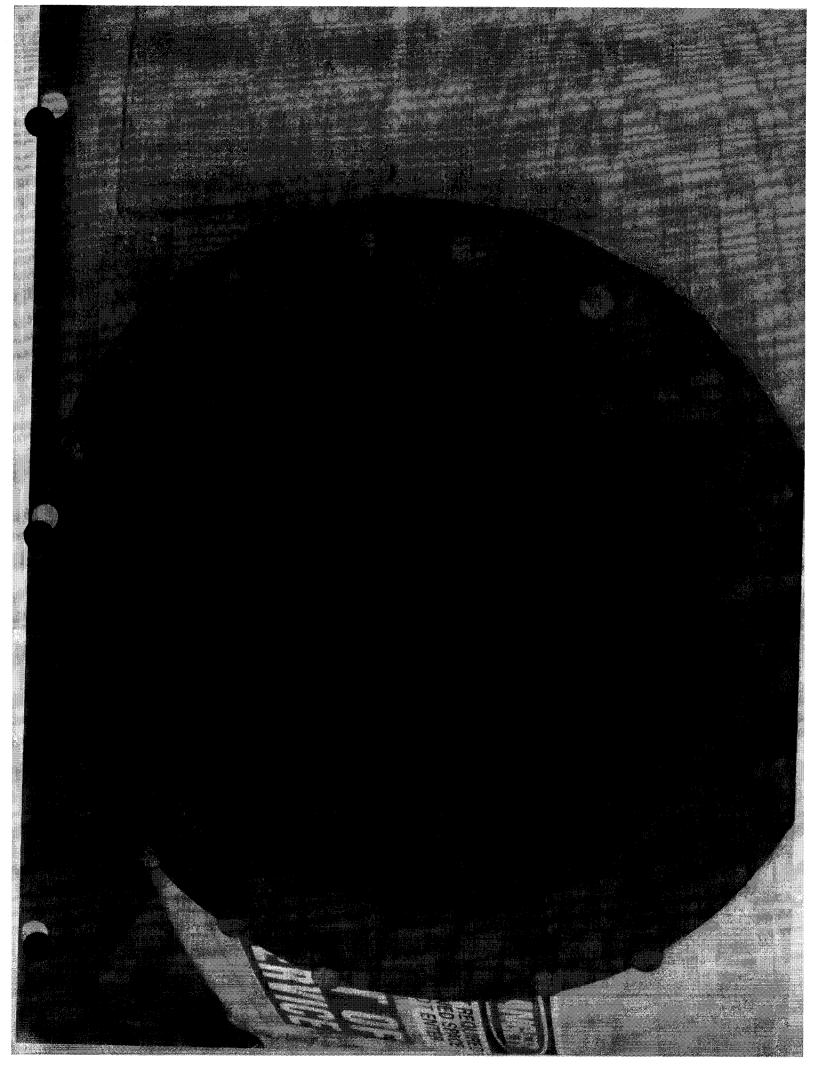


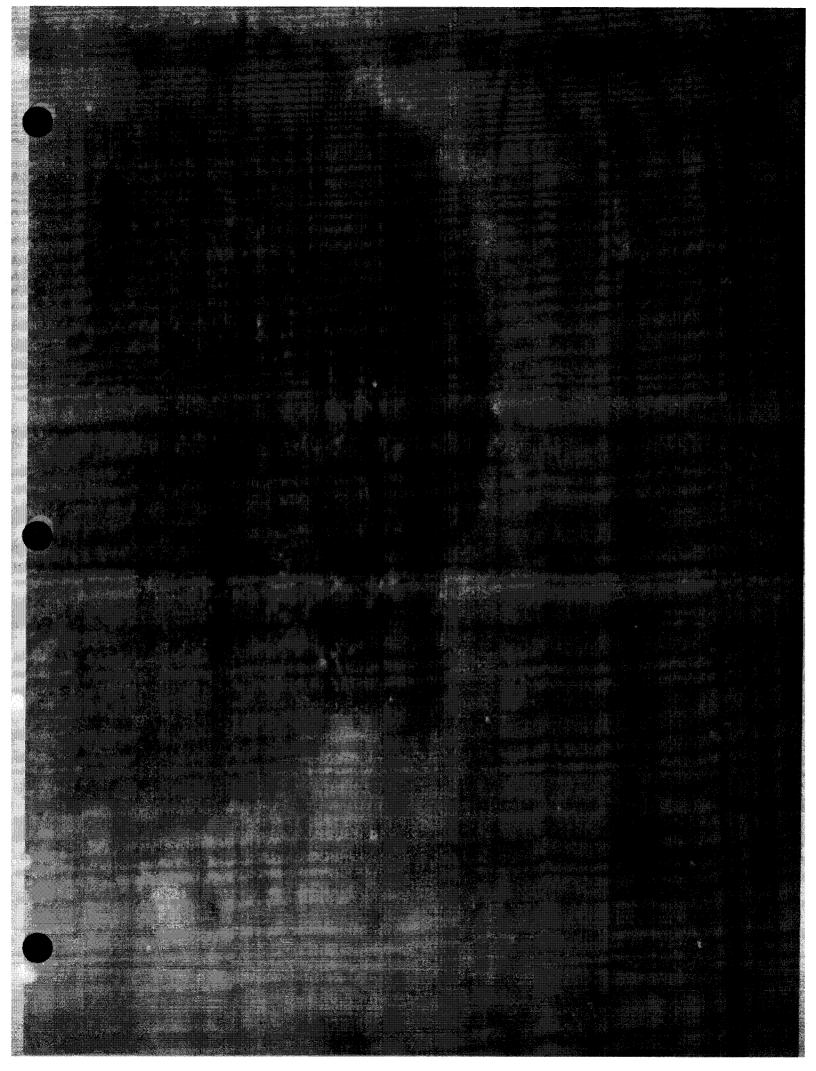














EAM Industrial Services, Inc.

402 NW Business Park Lane, Riverside, MO 64150 Phone: 816/505-5578

Clean Harbors Wichita, KS facility Tank V-2 **Hazardous Waste Storage**

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-2 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-2 Hazardous Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-2 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 1-22-82. According to the drawing, the heads and shell were constructed of SA 36 Carbon Steel. The tank has an overall height of 18' 10" tall and 8' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .030" in the bottom two feet of the tank. Thickness readings were consistent with the 3/16" nominal thickness noted on the drawing leaving an approximate thickness. The circumferential welds that were accessible showed no signs of cracks or defects detrimental to use. The 3" nozzle weld on east side of tank is corroded and lacks build up. The nozzles were clean and showed no signs of internal corrosion.

External:

The coating has several areas of failure throughout. The ground strap is attached by a "C" clamp. All nozzles gasket surfaces should have old gasket material cleaned off prior to installing new.





Floor:

Internal inspection:

Under the 2" nozzle is an area approximately 3" in diameter that has corrosion nearly through wall. The rest of the tank has general pitting was noted throughout with minimal depths. Thickness readings were consistent with 1/4" SA36 Carbon Steel noted on drawing.

Roof:

External inspection only:

The head has several coating failures. Thickness readings were consistent with ¼" SA36 Carbon Steel noted on drawing. See drawings for thickness readings. The inspection hatch has corrosion on the gasket surface of the hatch.

Recommendations:

Complete coating repairs.

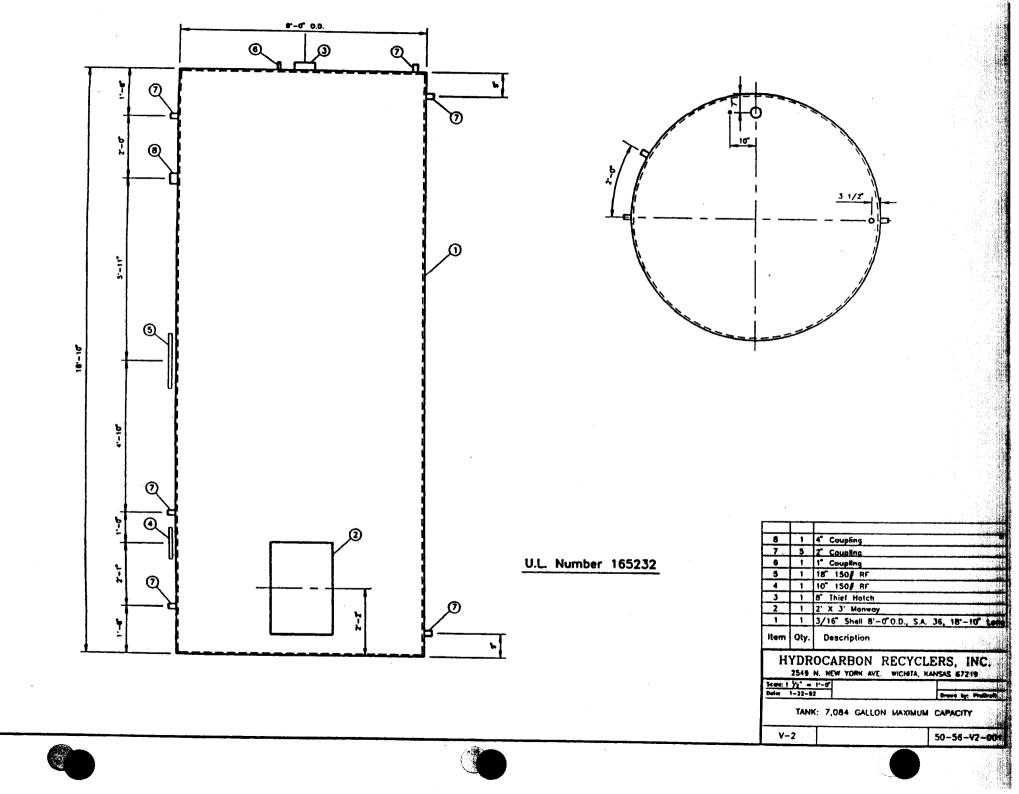
Recommend welding patch over corroded area on east side of tank under the nozzle.

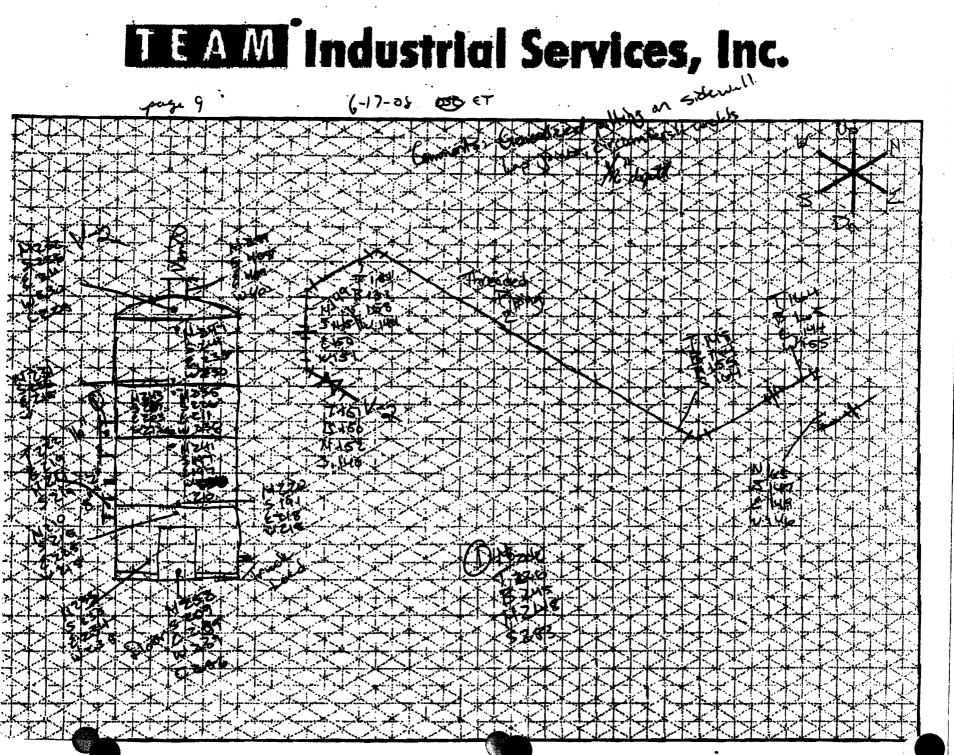
Replace gasket on to inspection hatch.



Thickness readings taken by David Zeller and Ethan Towne 6-17-08.

API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.









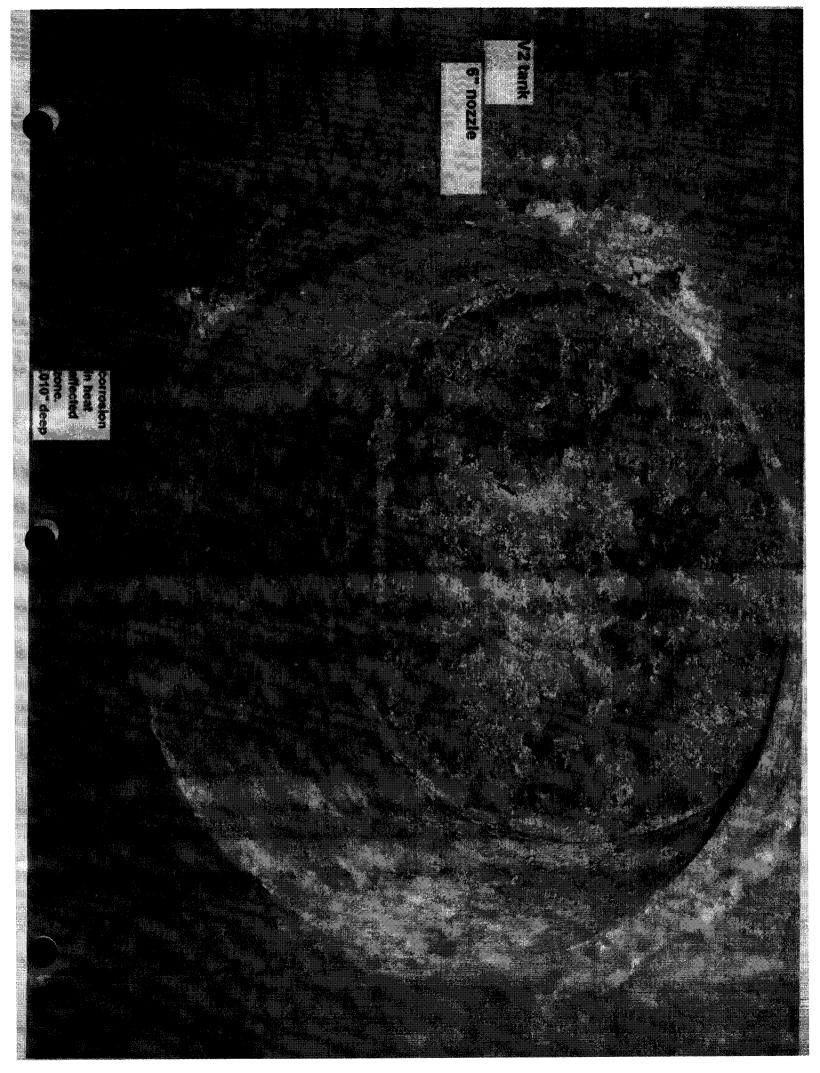
2 1/2" hole in floor heavily corroded area.

grounding clamp heald on by "C" clamp

corrosion on natch seal hale in floor TOOF patch

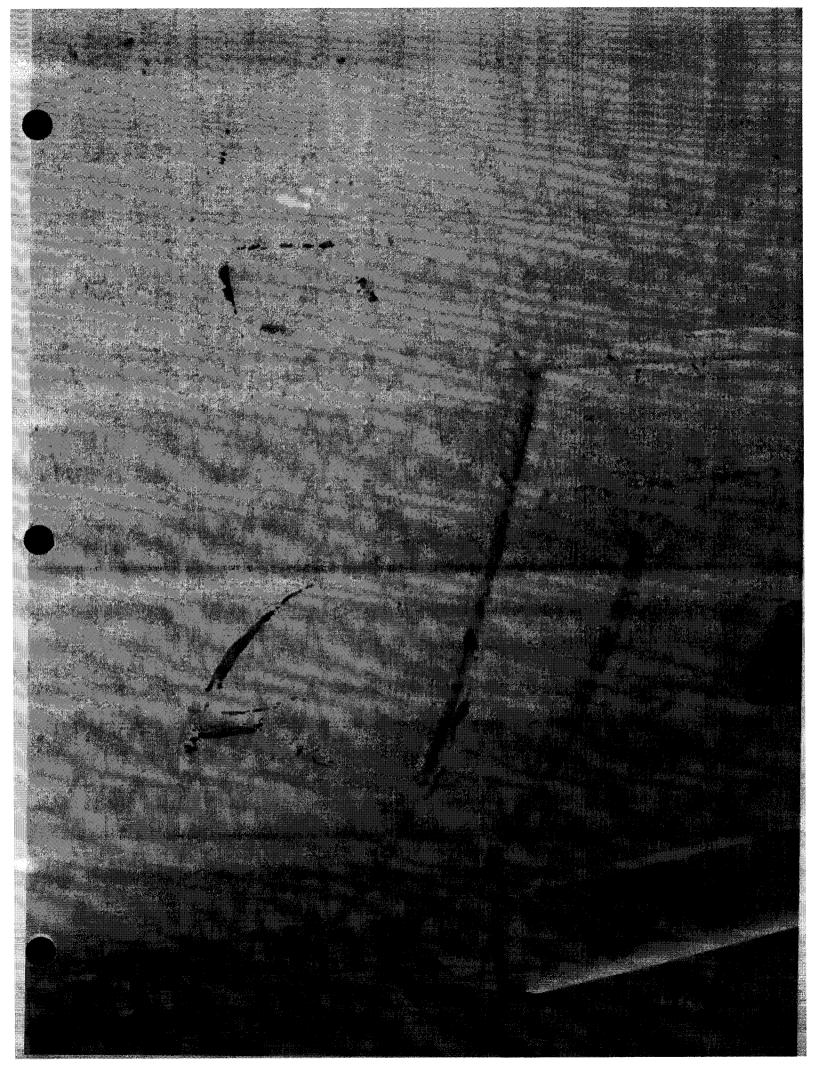
weld

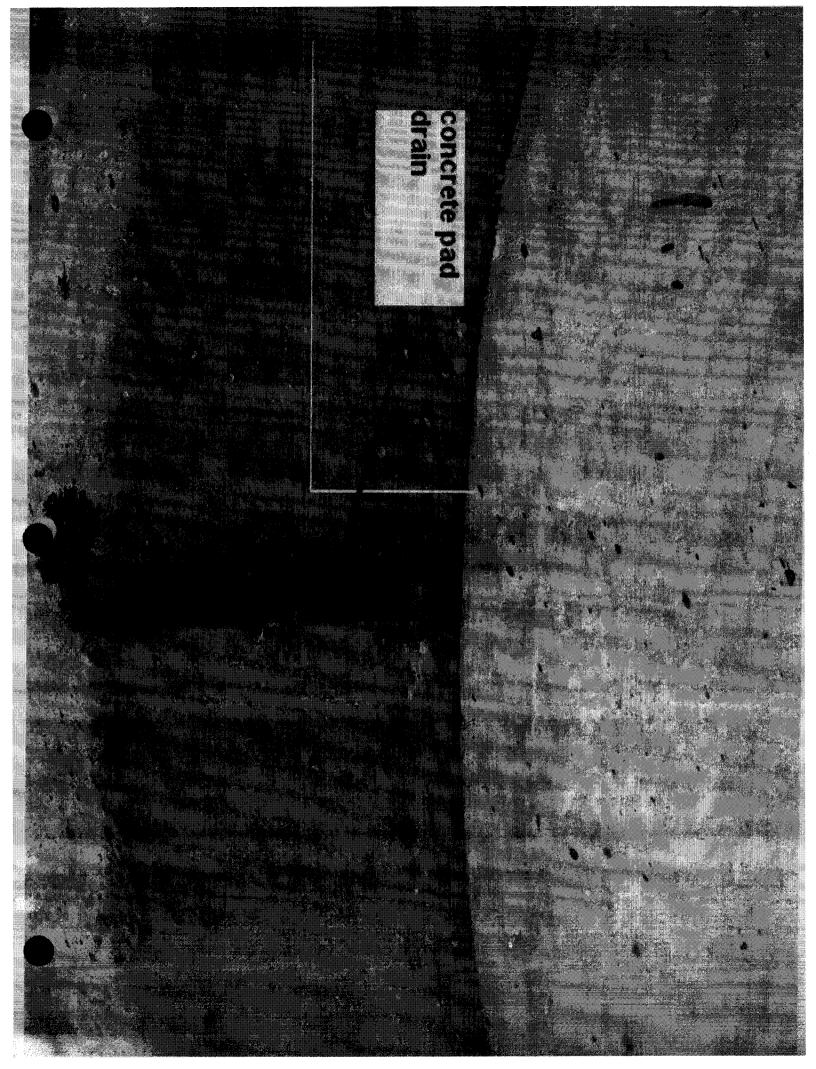
Conscion in weld node



loor cross bracing

existing patch





√2 700**f**

Paint failures

leaks



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Clean Harbors Wichita, KS facility Tank V-3 **Hazardous Waste Storage**

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-3 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-3 Hazardous Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-3 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 7-7-82. According to the drawing, the heads and shell were constructed of SA 36 Carbon Steel. The tank has an overall height of 22' 3 1/2" tall and 8' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .030" in the bottom two feet of the tank. Thickness readings were consistent with the 3/16" nominal thickness noted on the drawing leaving an approximate thickness. The welds that were accessible showed no signs of cracks or defects detrimental to use. All nozzles were clean and showed no signs of corrosion. All welds were in acceptable condition.

External:

The coating has several areas of failure throughout. No signs of damage or deterioration noted. All nozzles gasket surfaces should have old gasket material cleaned off prior to installing new.

Bottom Head:

Internal inspection:

Isolated pitting was noted throughout the bottom head with depths of .010" to .020". The nozzles were clean with no signs of deterioration. The nozzle weld is in good condition. Thickness readings were consistent with 1/4" SA36 Carbon Steel noted on drawing.

External:

Coating has several coating failures. No signs of leakage around nozzles.

Top Head:

External inspection only:

The head has several coating failures. Thickness readings were consistent with 1/4" SA36 Carbon Steel noted on drawing. See drawings for thickness readings.

Tank vertical supports:

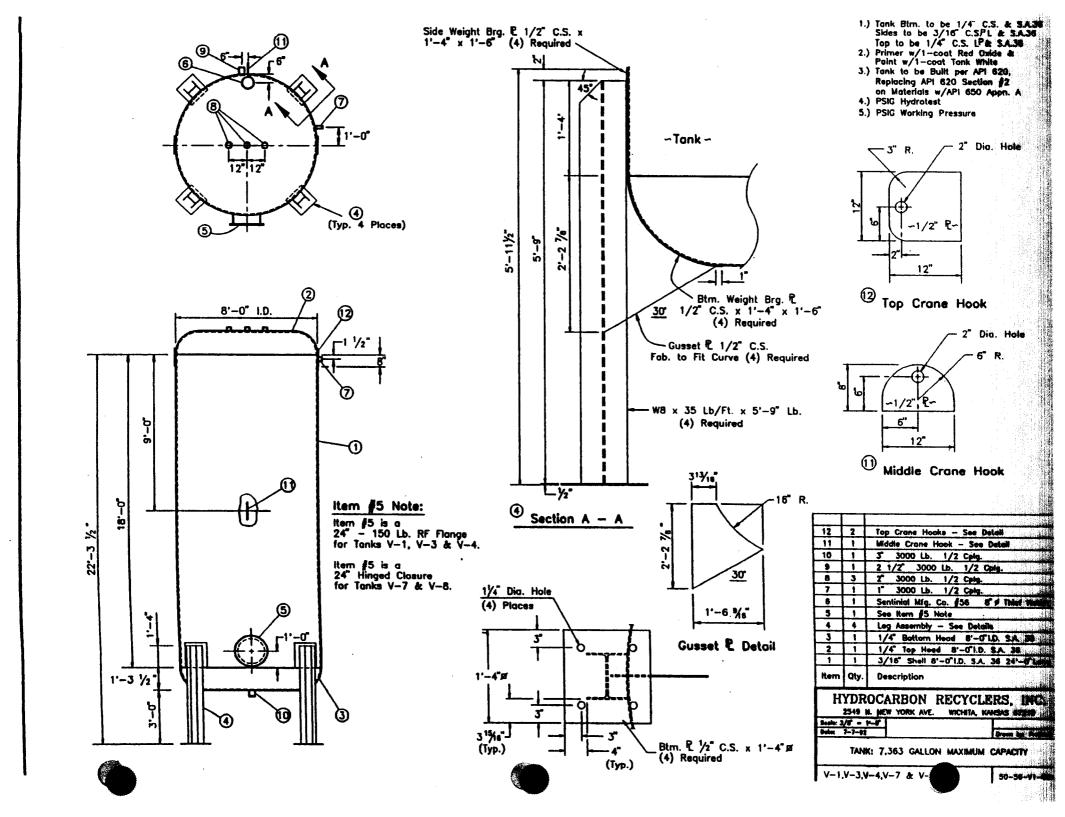
The supports have a concrete coating that show signs that repairs have been made to fix spalling, chips and cracks.

Recommendations:

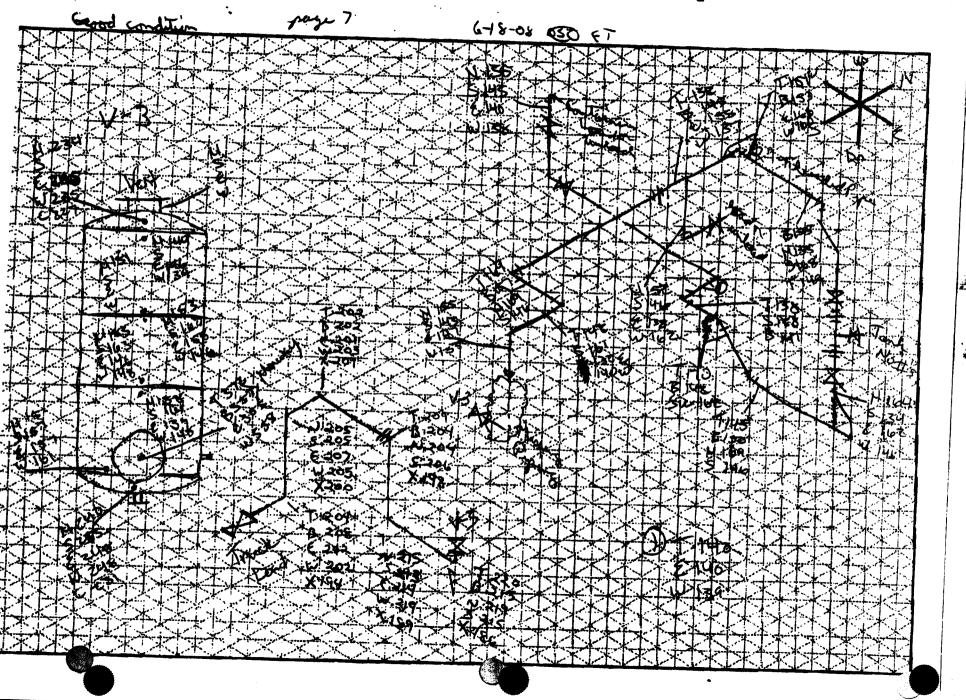
Complete coating repairs.

Thickness readings taken by David Zeller and Ethan Towne 6-18-08.

API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.



ILEAM Industrial Services, Inc.



ght corrosion on shell

Bottom head to shell weld. West side



and piping.



weld seam

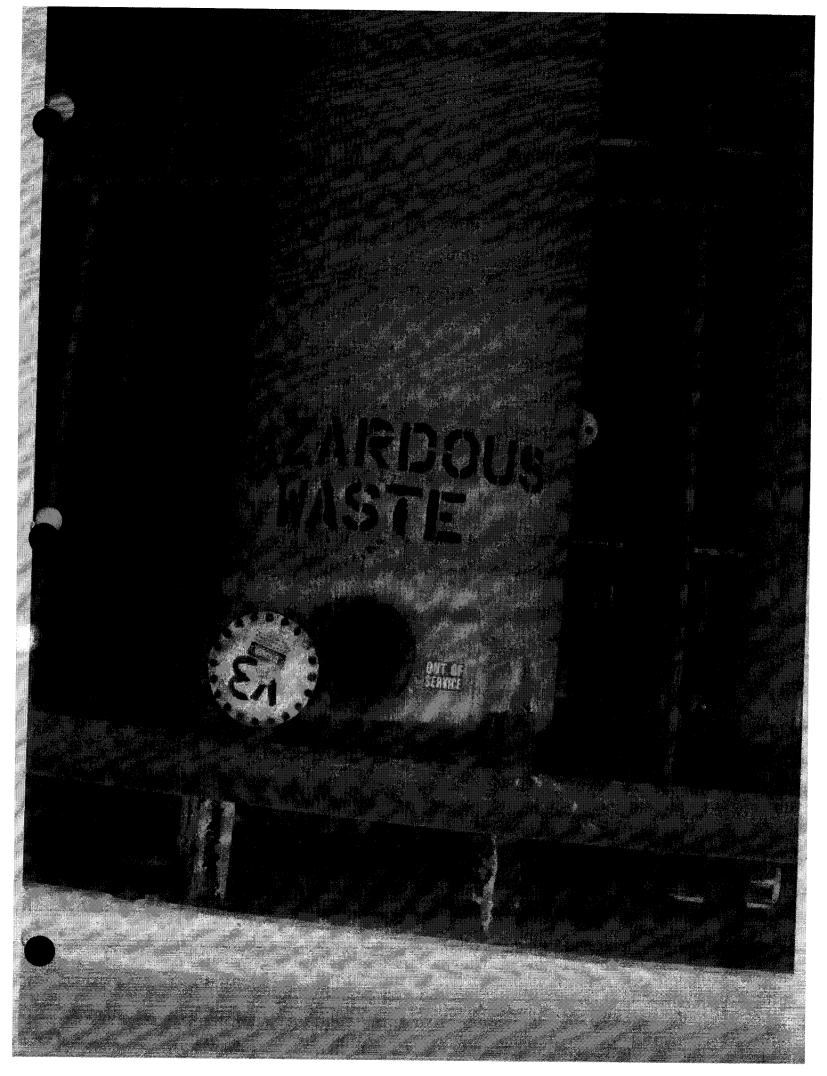
corrosion on Internal

aint failures on vesse

concrete spalling

Areas of paint failure guage glass clear





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Clean Harbors Wichita, KS facility Tank V-4 **Hazardous Waste Storage**

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-4 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-4 Hazardous Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-4 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 7-7-82. According to the drawing, the heads and shell were constructed of SA 36 Carbon Steel. The tank has an overall height of 22' 3 1/2" tall and 8' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .030" in the bottom two feet of the tank. Thickness readings were consistent with the 3/16" nominal thickness noted on the drawing leaving an approximate thickness. The welds that were accessible showed no signs of cracks or defects detrimental to use. All nozzles were clean and showed no signs of corrosion. All welds were in acceptable condition.

External:

The coating has several areas of failure throughout. No signs of damage or deterioration noted. All nozzles gasket surfaces should have old gasket material cleaned off prior to installing new.



Bottom Head:

Internal inspection:

Isolated pitting was noted throughout the bottom head with depths of .010" to .020". The nozzles were clean with no signs of deterioration. The nozzle weld is in good condition. Thickness readings were consistent with 1/4" SA36 Carbon Steel noted on drawing.

External:

Coating has several coating failures. No signs of leakage around nozzles.

Top Head:

External inspection only:

The head has several coating failures. Thickness readings were consistent with 1/4" SA36 Carbon Steel noted on drawing. See drawings for thickness readings.

Tank vertical supports:

The supports have a concrete coating that show signs that repairs have been made to fix spalling, chips and cracks.

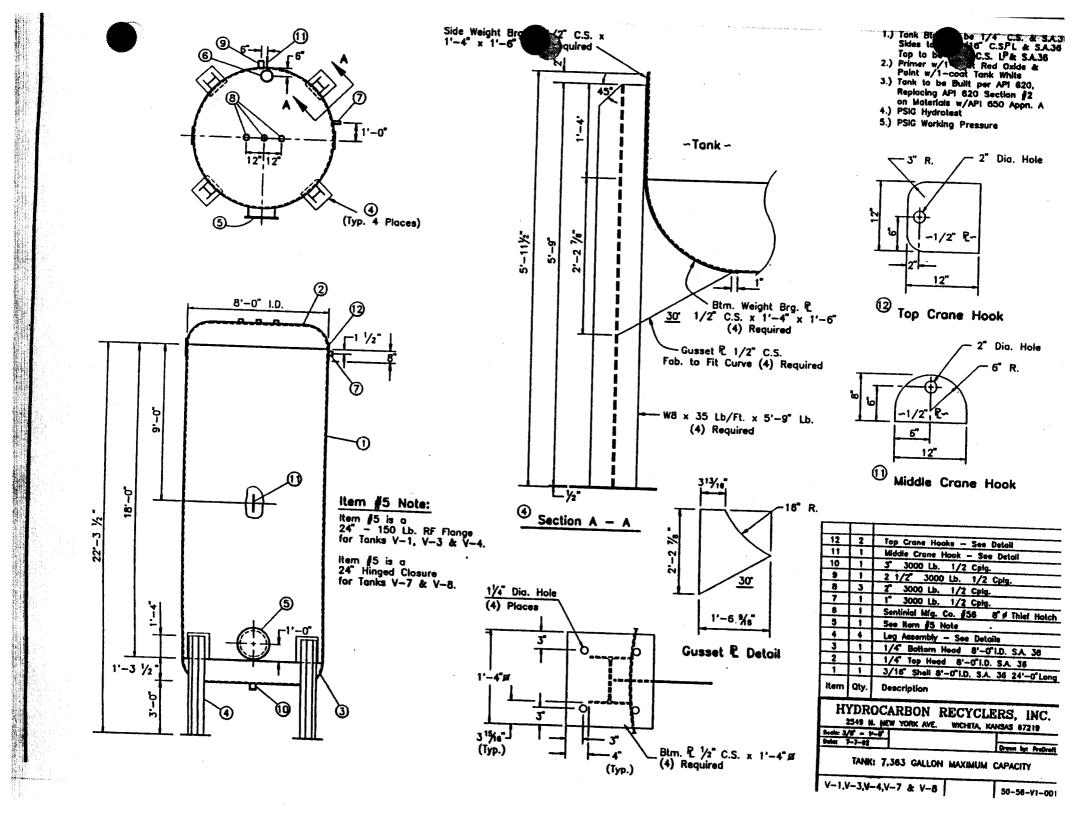
Recommendations:

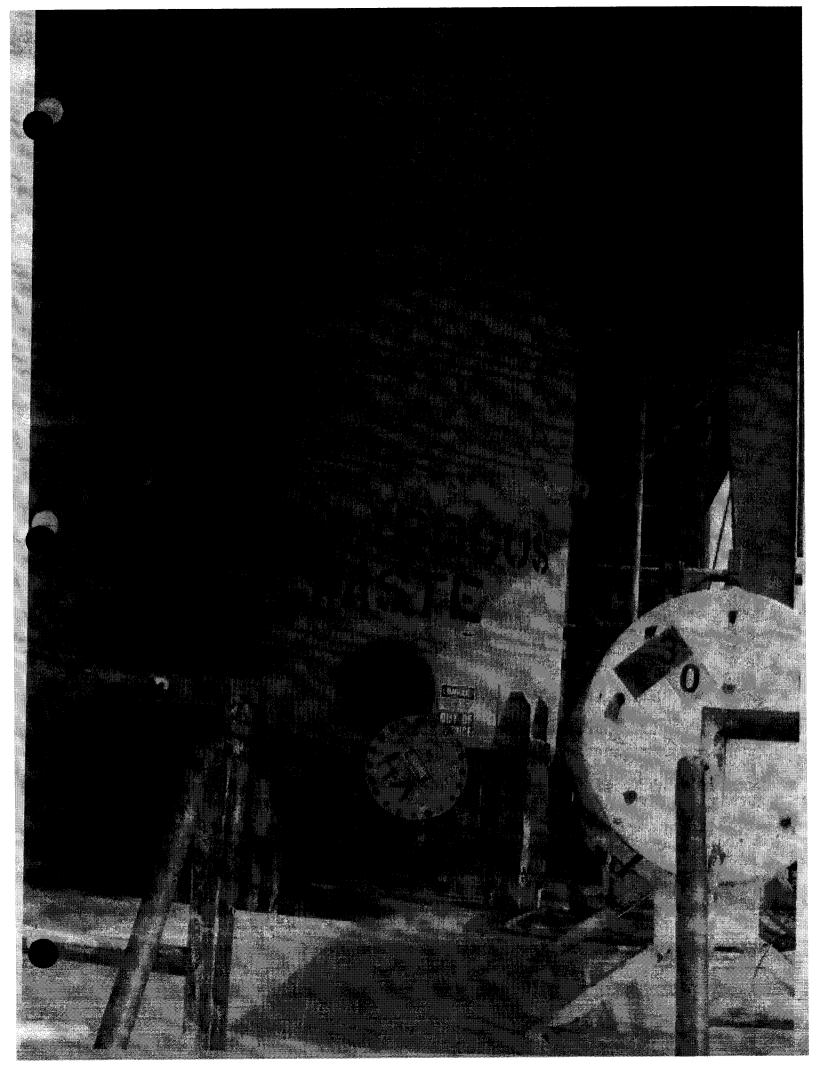
Complete coating repairs.



Thickness readings taken by David Zeller and Ethan Towne 6-18-08.

API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.





V4

mnor concrete

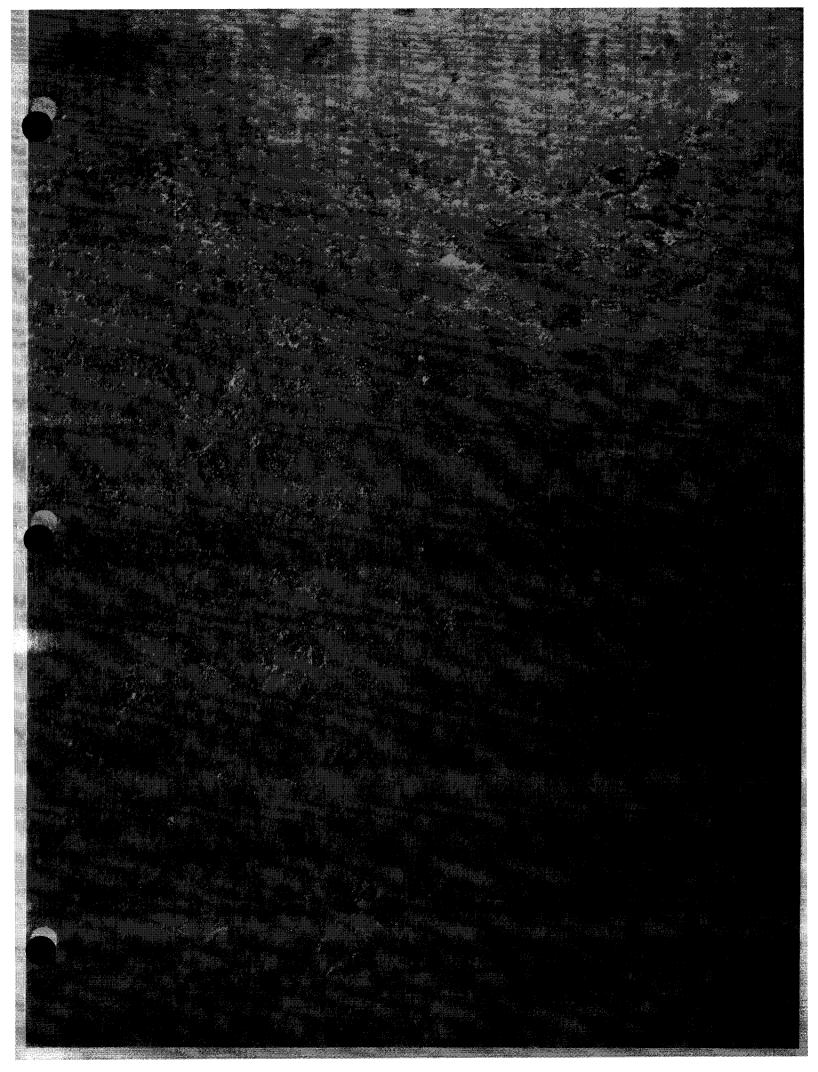
ground cable good condition

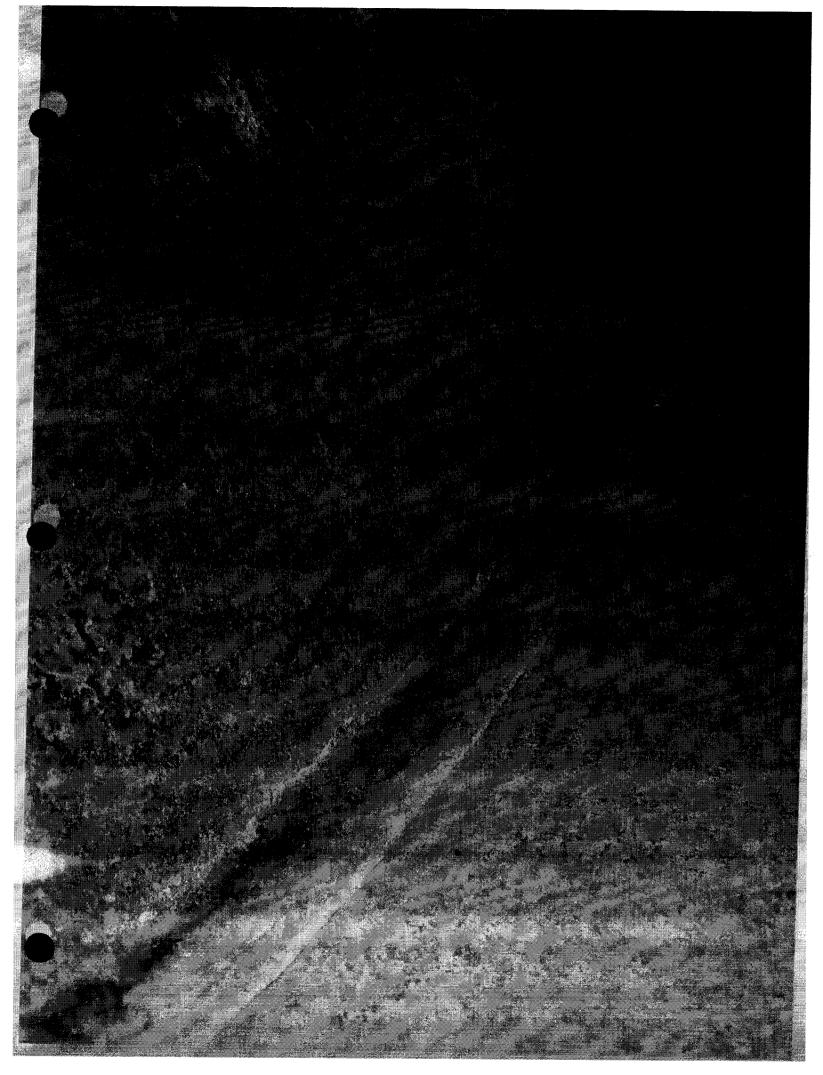
gasket surface needs prepped for closure

pillar has concrete failures

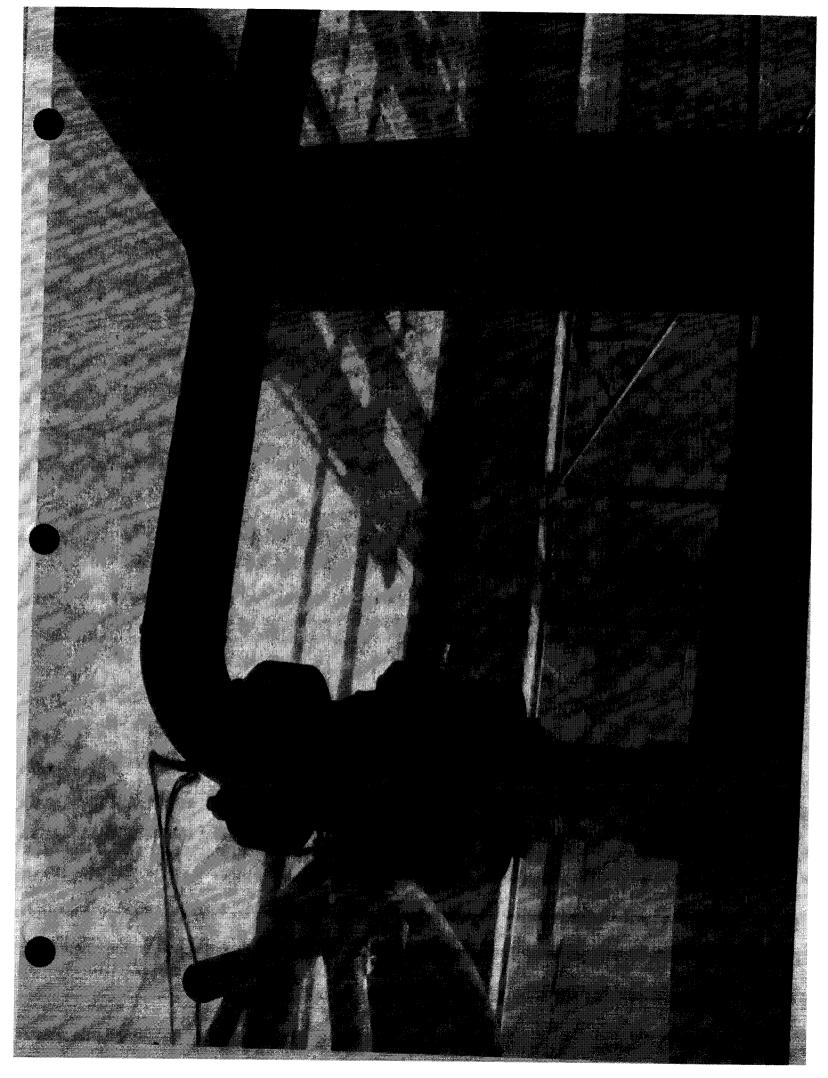
guage glass clear

paint failure

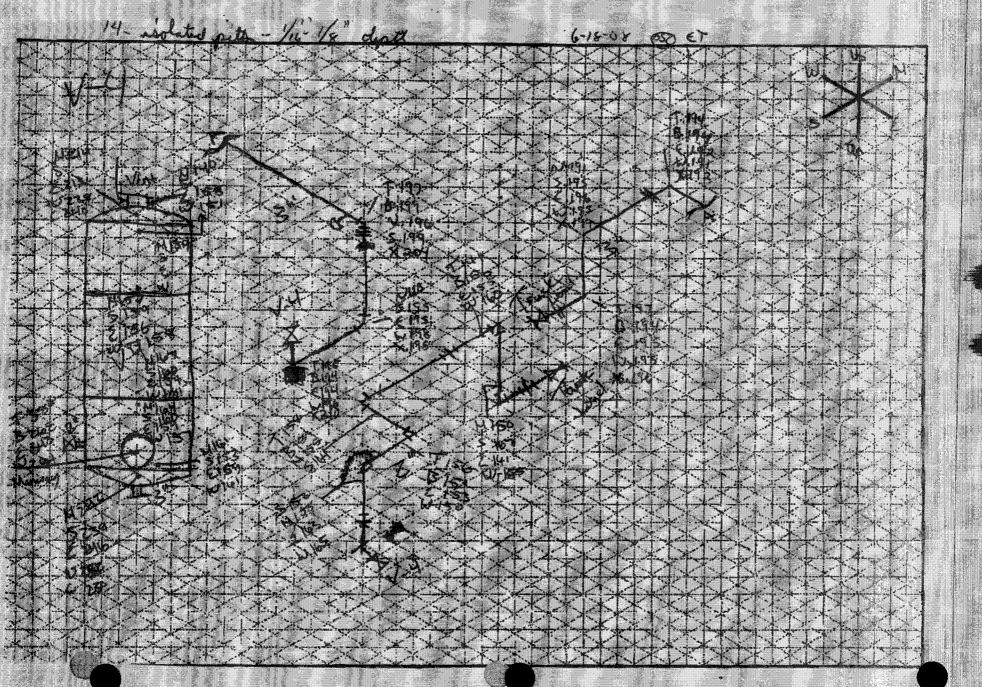








LEE LE Industrial Services, Inc.





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Clean Harbors Wichita, KS facility Tank V-5 Hazardous Waste Storage

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-5 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-5 Hazardous Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-5 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 7-7-82. According to the drawing, the heads and shell were constructed of 1/4" SA 36 Carbon Steel. The top head is constructed out of 3/16" SA 36 Carbon Steel. The bottom head is constructed of 5/16" SA 36 Carbon Steel. The tank has an overall height of 28' 6" tall and 12' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .020". Thickness readings were consistent with the 1/4" nominal thickness noted on the drawing. The circumferential welds that were accessible showed no signs of cracks or defects detrimental to use. The nozzles were clean and showed no signs of internal corrosion.

External:

The coating has several areas of failure throughout. All nozzles gasket surfaces should have old gasket material cleaned off prior to installing new.

Bottom coned head:

Internal inspection:

Thickness readings were consistent with 5/16" SA36 Carbon Steel noted on drawing. Nozzle welds are acceptable. Nozzle is clean and no noticeable corrosion noted. Seam welds are in acceptable condition.





Roof:

External inspection only:

The head has several coating failures. The roof is warped over 25% of the roof surface. See picture. Thickness readings were consistent with 3/16" SA36 Carbon Steel noted on drawing. See drawings for thickness readings. The inspection hatch has corrosion on the gasket surface of the hatch.

Recommendations:

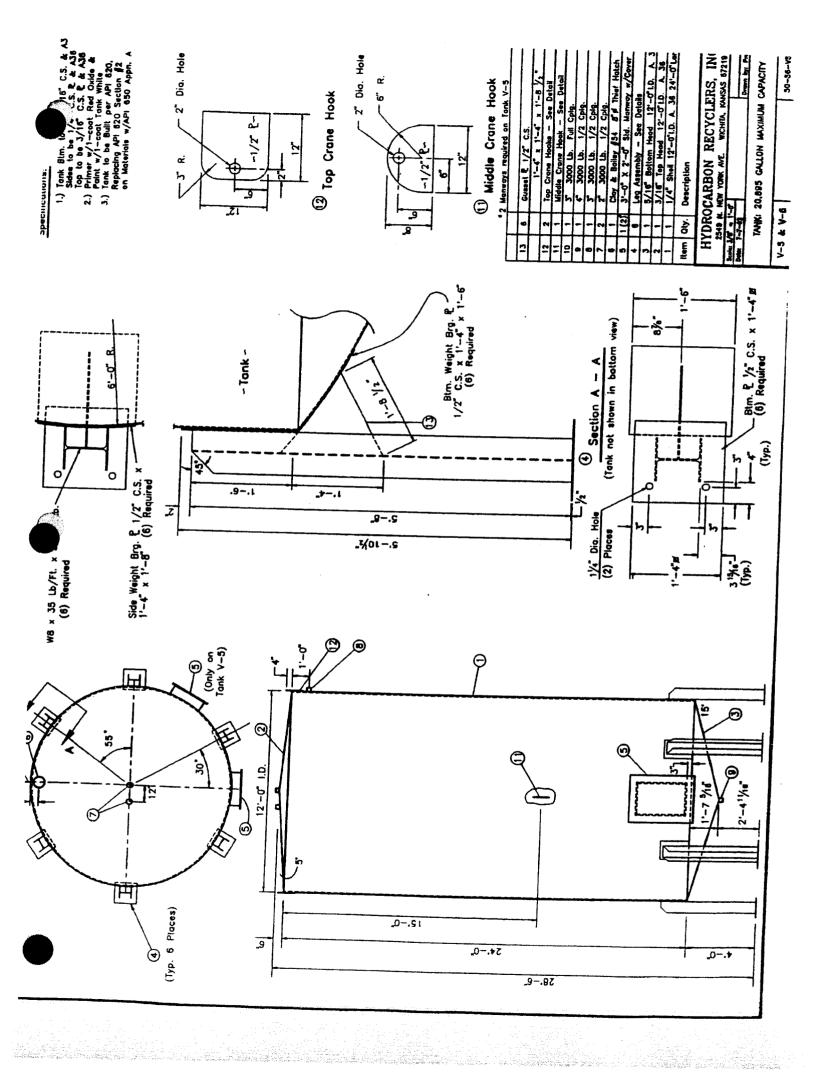
Complete coating repairs.

Replace gasket on to inspection hatch.

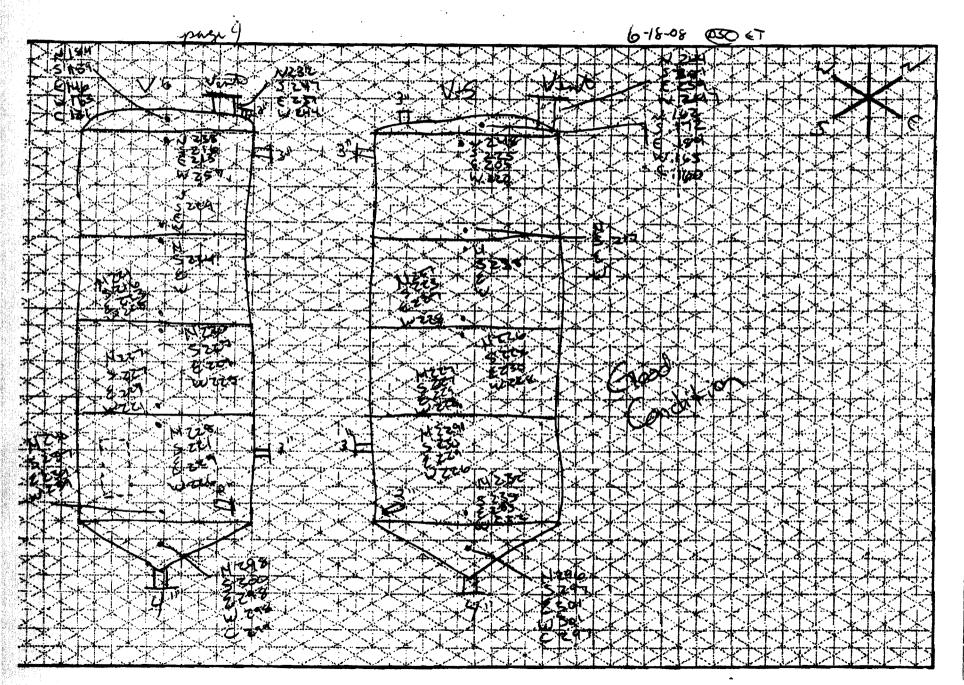
Thickness readings taken by David Zeller and Ethan Towne 6-18-08.

API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.

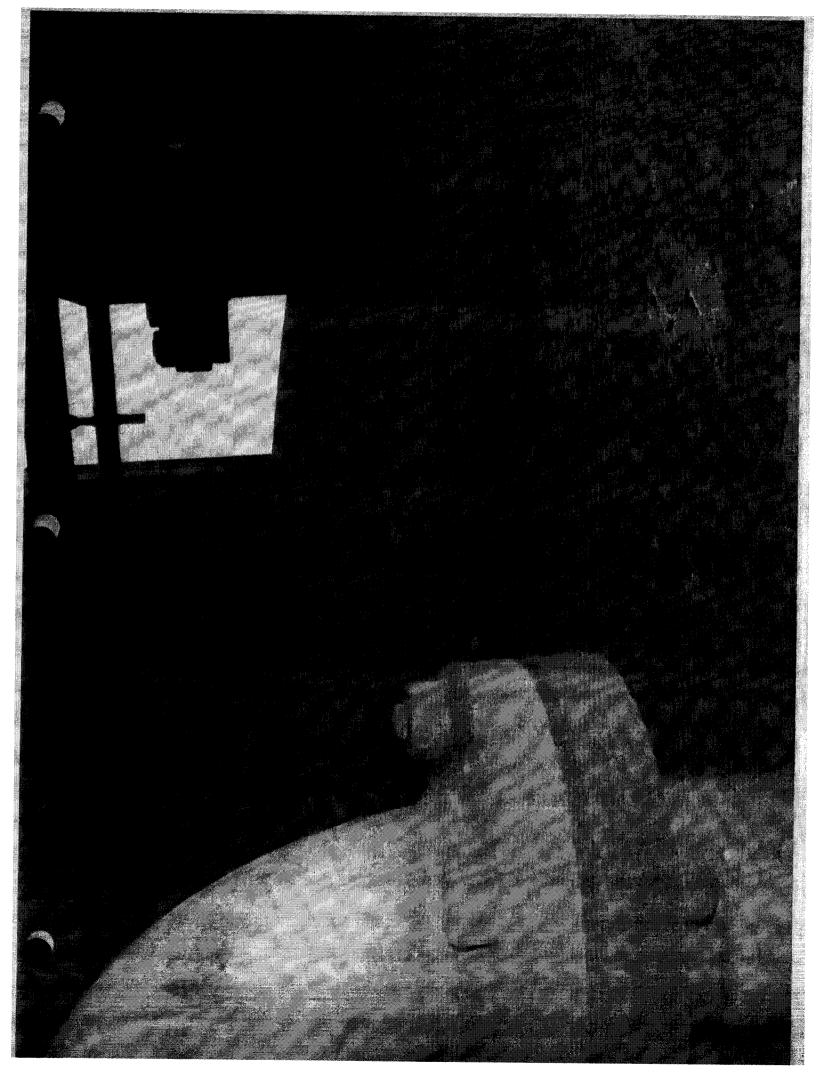


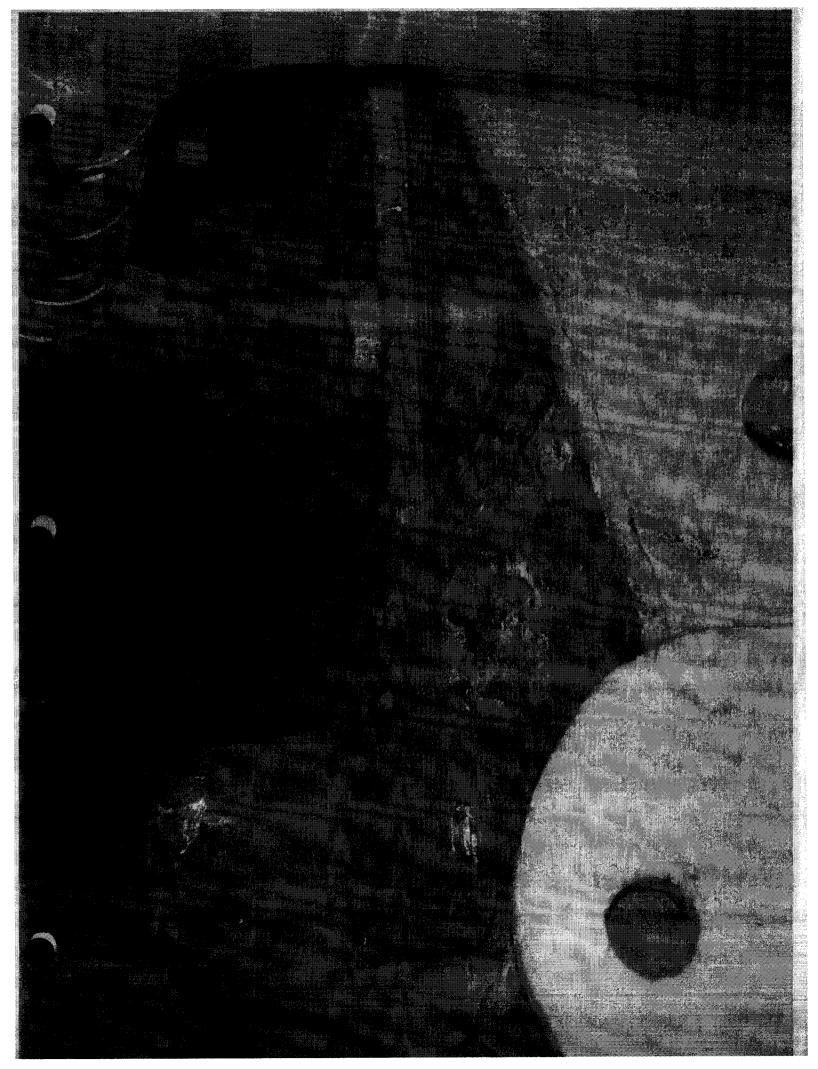


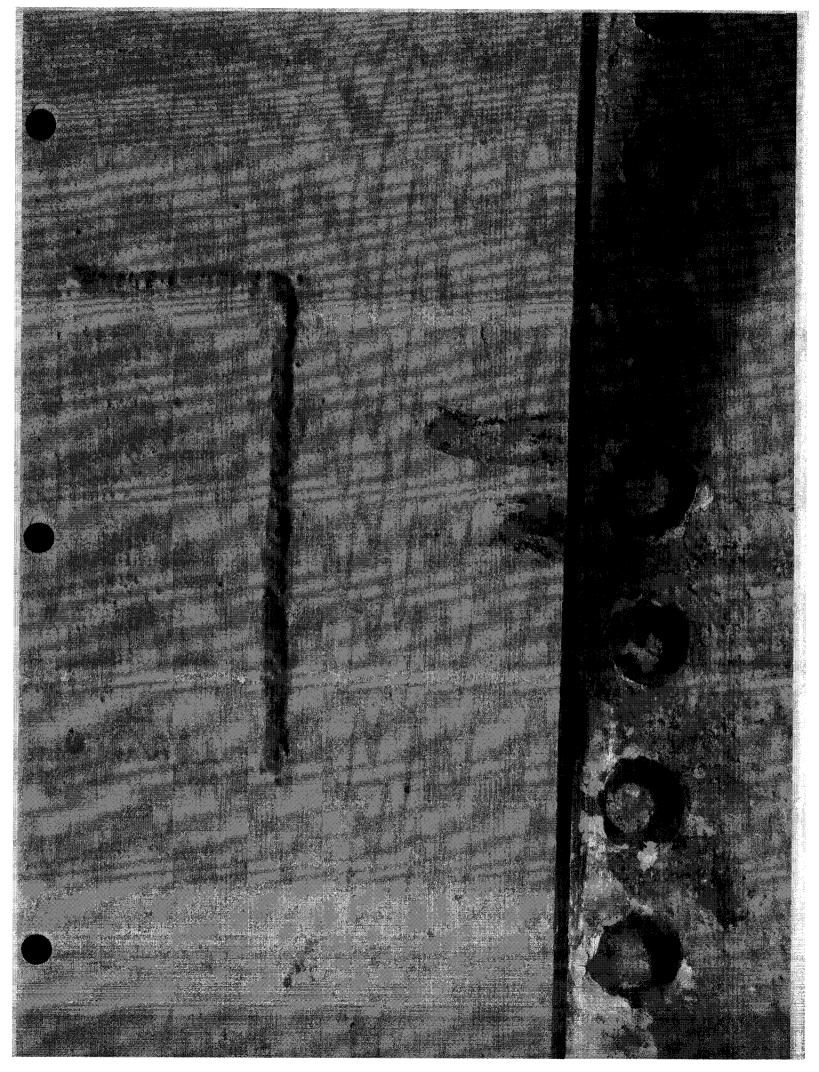
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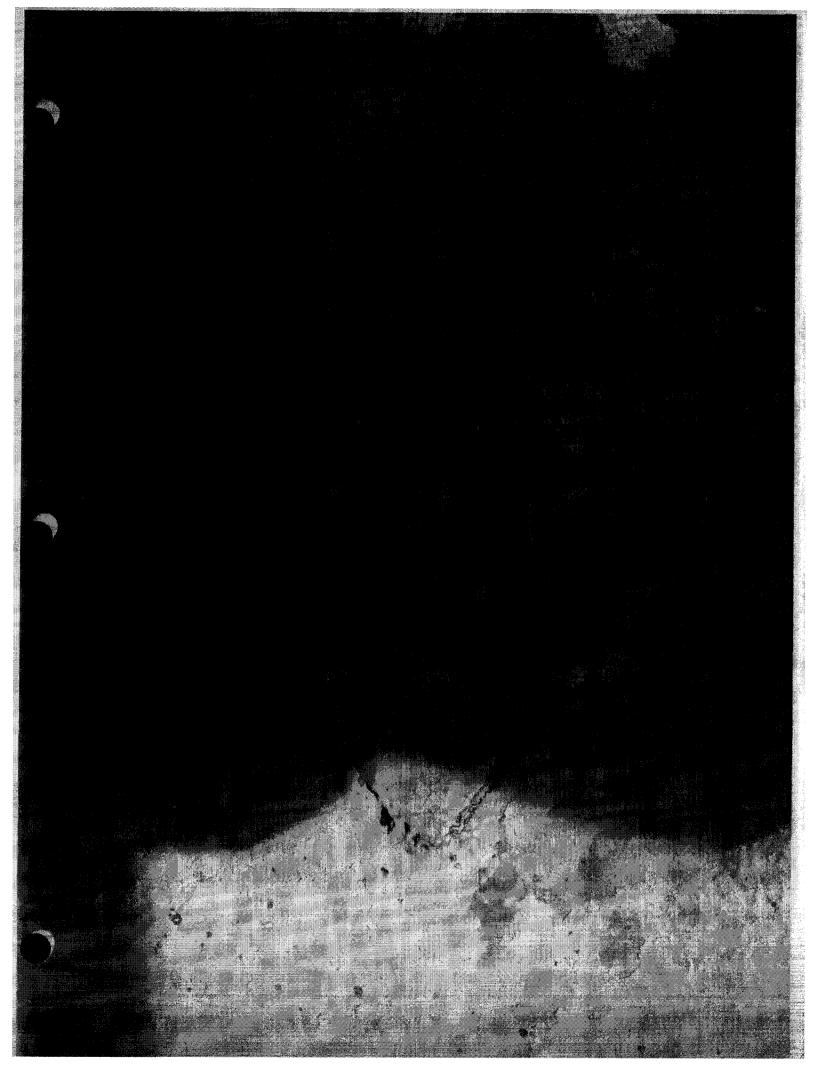




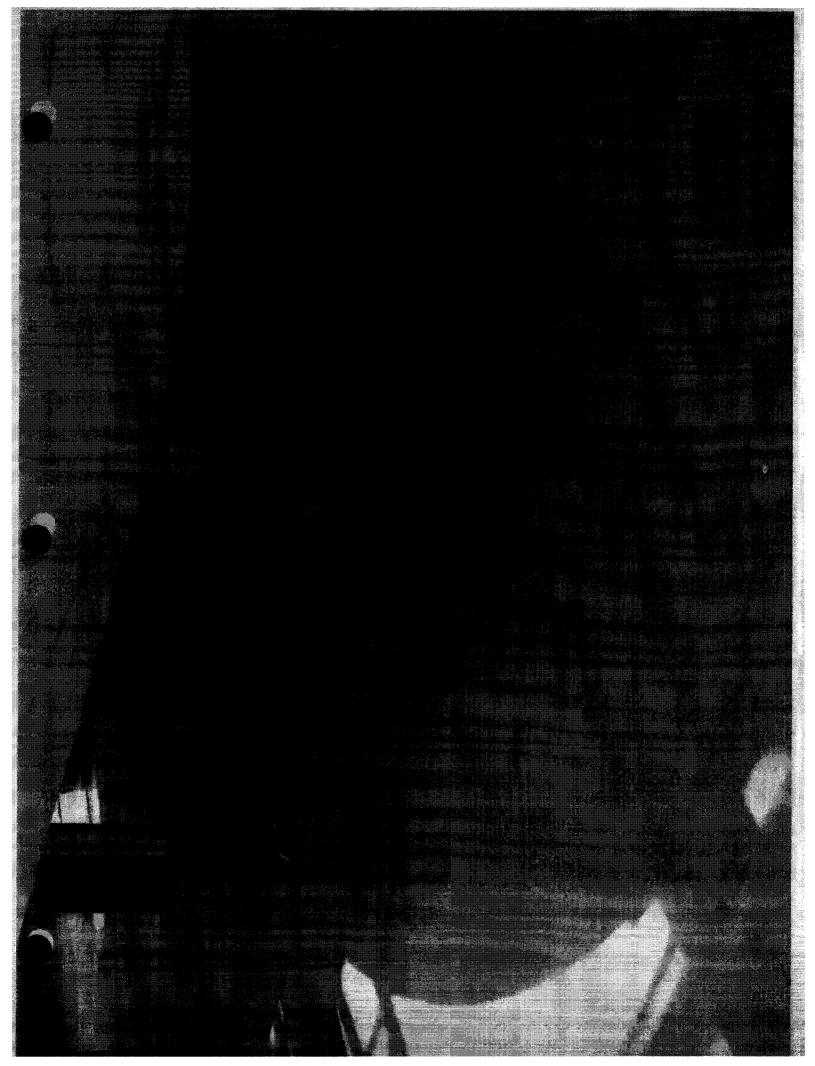




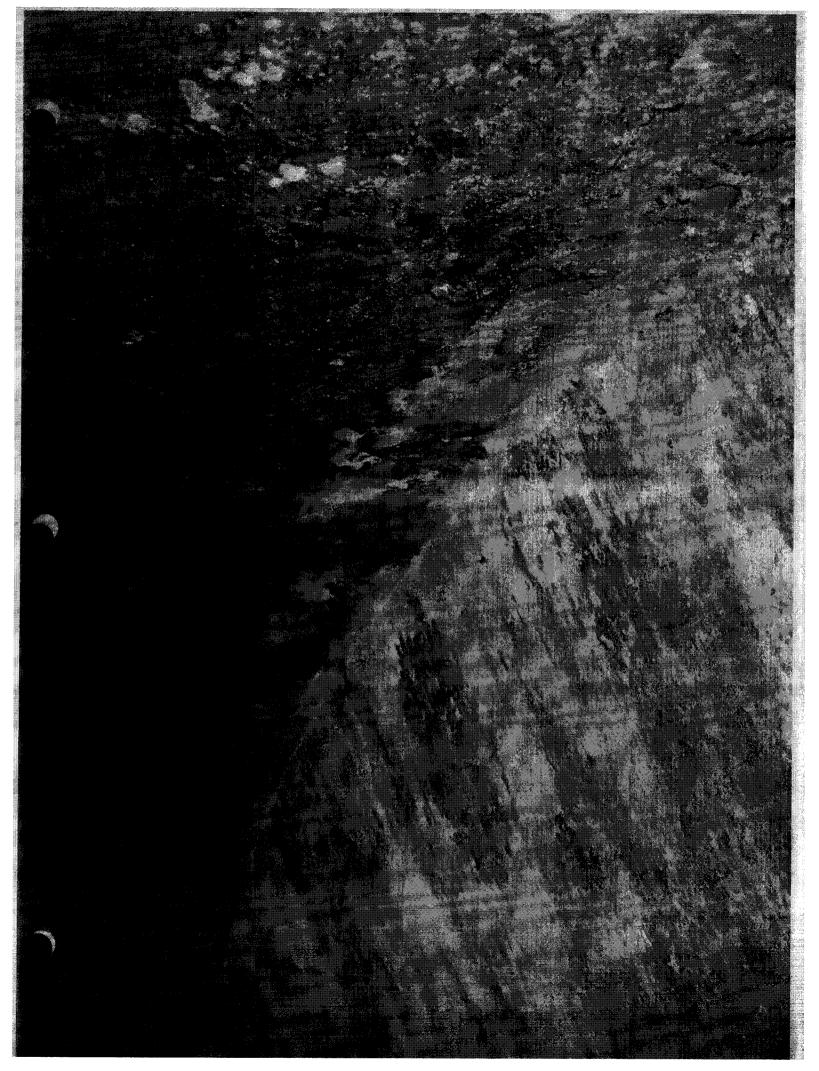


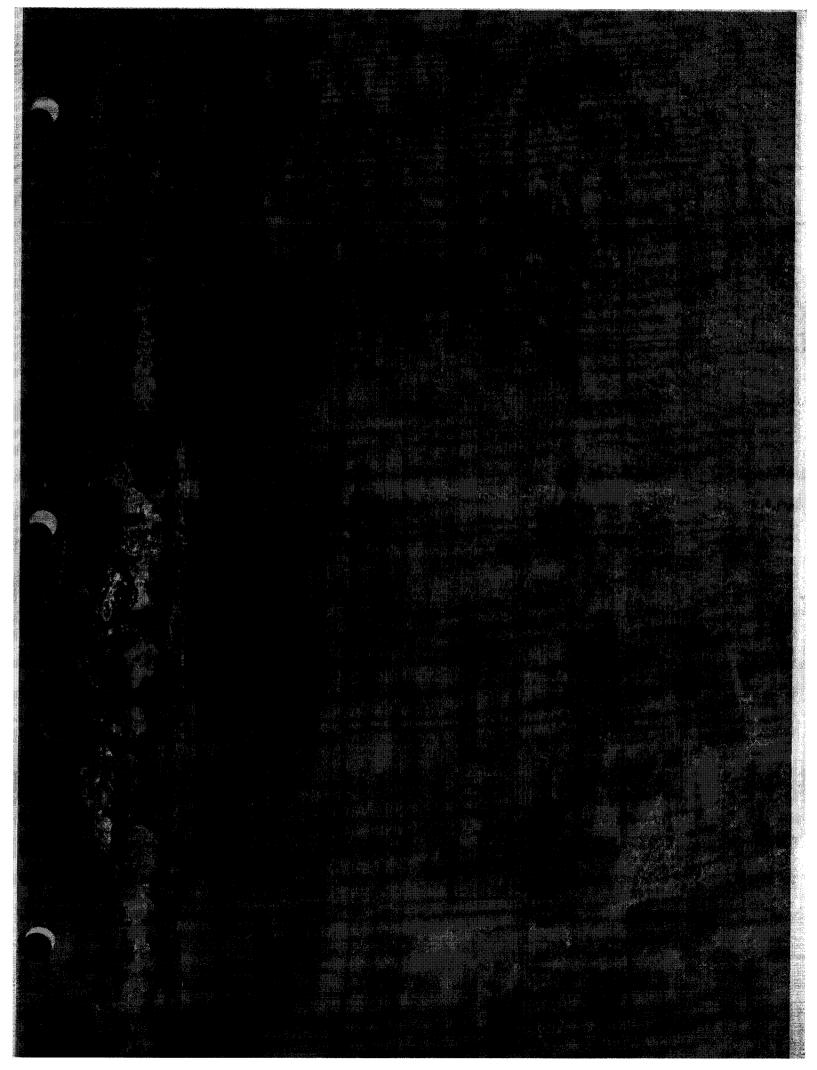












TEAM Industrial Services, Inc.

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Clean Harbors Wichita, KS facility Tank V-6 Hazardous Waste Storage

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-6 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-6 Hazardous Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-6 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 7-7-82. According to the drawing, the heads and shell were constructed of 1/4" SA 36 Carbon Steel. The top head is constructed out of 3/16" SA 36 Carbon Steel. The bottom head is constructed of 5/16" SA 36 Carbon Steel. The tank has an overall height of 28' 6" tall and 12' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .030". Thickness readings were consistent with the 1/4" nominal thickness noted on the drawing. The welds that were accessible showed no signs of cracks or defects detrimental to use. The nozzles were clean and showed no signs of internal corrosion.

External:

The coating has several areas of failure throughout. All nozzles gasket surfaces should have old gasket material cleaned off prior to installing new.

Bottom coned head:

Internal inspection:

Thickness readings were consistent with 5/16" SA36 Carbon Steel noted on drawing. Nozzle welds are acceptable. Nozzle is clean and no noticeable corrosion noted. Seam welds are in acceptable condition.



Roof:

External inspection only:

The head has several coating failures. See pictures. Thickness readings were consistent with 3/16" SA36 Carbon Steel noted on drawing. See drawings for thickness readings. The inspection hatch has corrosion on the gasket surface of the hatch.

Support legs:

Tank support legs have areas where concrete is failing.

Recommendations:

Complete coating repairs.

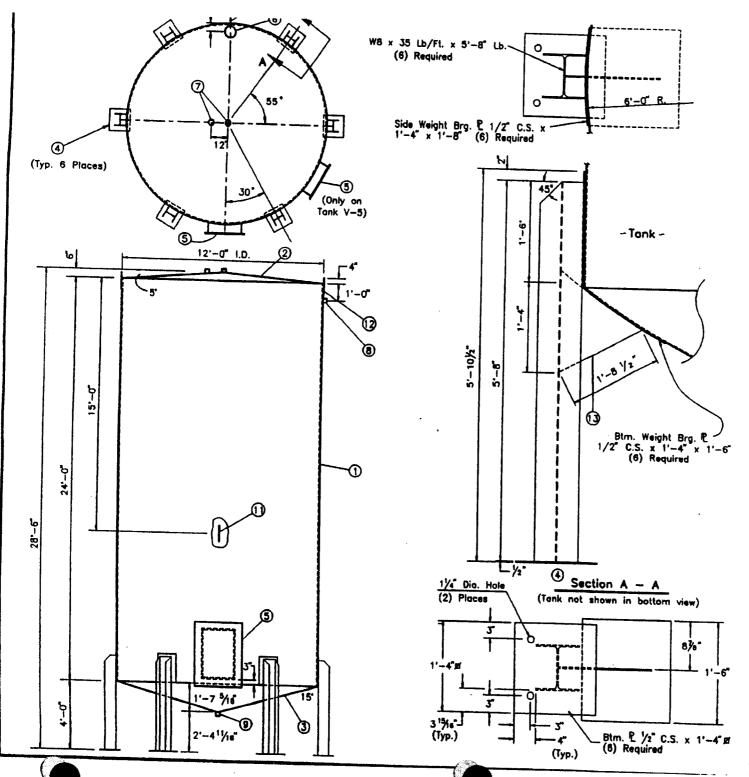
Repair concrete on support legs.

Replace gasket on to inspection hatch.

Thickness readings taken by David Zeller and Ethan Towne 6-18-08.

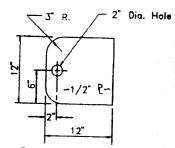
API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.



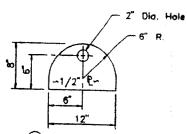


specifications.

- 1.) Tank Blm. to be 5/16° C.S. & A3
 Sides to be 1/4° C.S. R & A36
 Top to be 3/16° C.S. R & A36
 2.) Primer w/1-coat Red Oxide &
 Paint w/1-coat Tank White
 3.) Tank to be Built per API 620,
 Replacing API 620 Section #2
 on Materials w/API 650 Appn. A



Top Crane Hook



Middle Crane Hook

13	6	Gusset R 1/2" C.S.
		1'-4" x 1'-4" x 1'-8 /2"
12	2	Top Crane Hooks - See Detail
11	1	Middle Crane Hook - See Detail
10	1	5" 3000 Lb. Full Cplg.
9	1	4" 3000 Lb. 1/2 Cplg.
8	1	3' 3000 Lb. 1/2 Cpiq.
7	2	2° 3000 tb. 1/2 Cplg.
6	1	Clay & Boiley #54 8"# Third Hatch
5	1(2)	3'-0" X 2'-0" Std. Manway w/Cover
4	6	Leg Assembly - See Details
3	1	5/16 Bottom Head 12'-0'10, A
2	1	3/16 Tep Head 12'-0'LD. A. 36
1	1	1/4" Shell 12'-0"I.D. A. 36 24'-0"Le
item	Oty.	Description

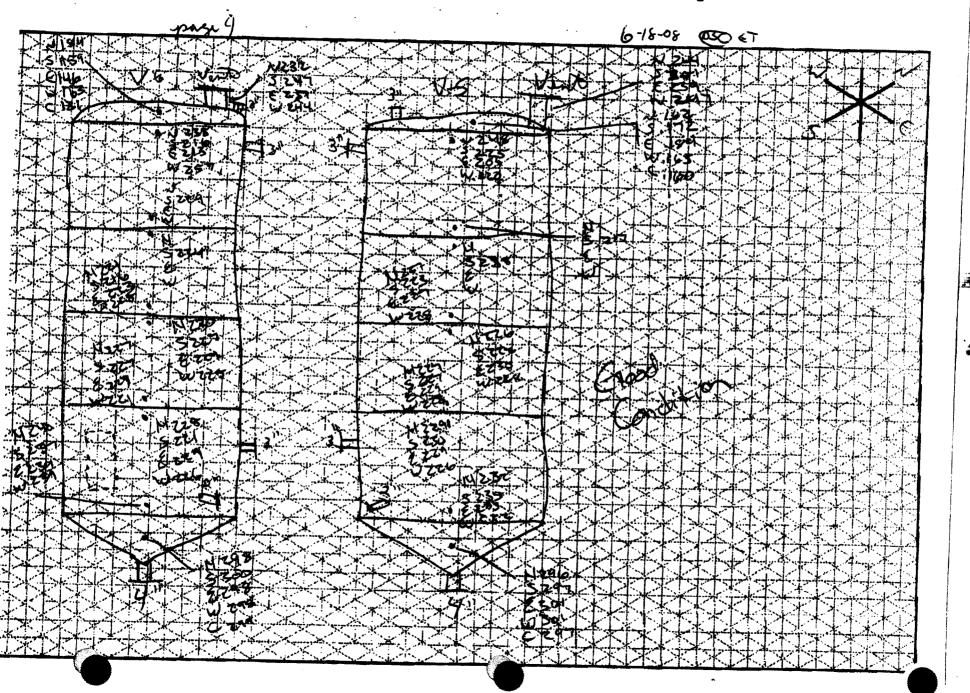
HYDROCARBON RECYCLERS, IN 2549 M. NEW YORK AVE. WICHTA, KANSAS 87219 Scole: 3/6" - 1'-6' Date: 7-7-61

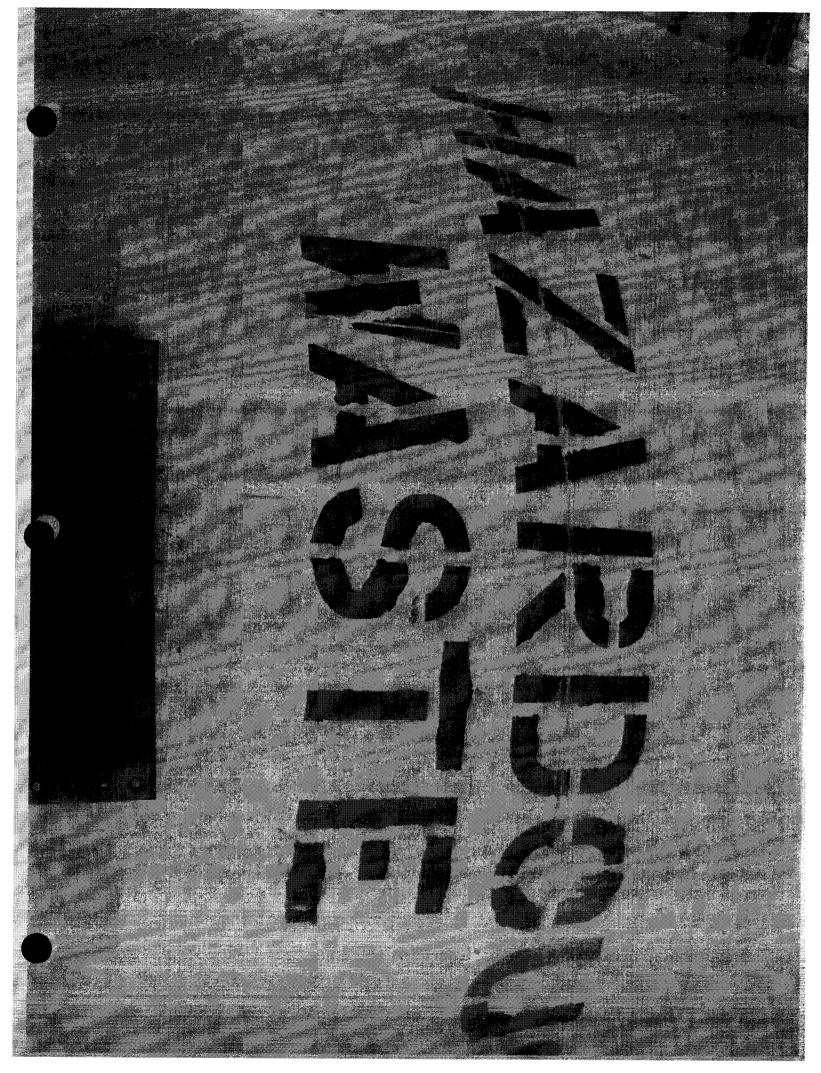
TANK: 20,895 GALLON MAXIMUM CAPACITY

V-5 & V-6

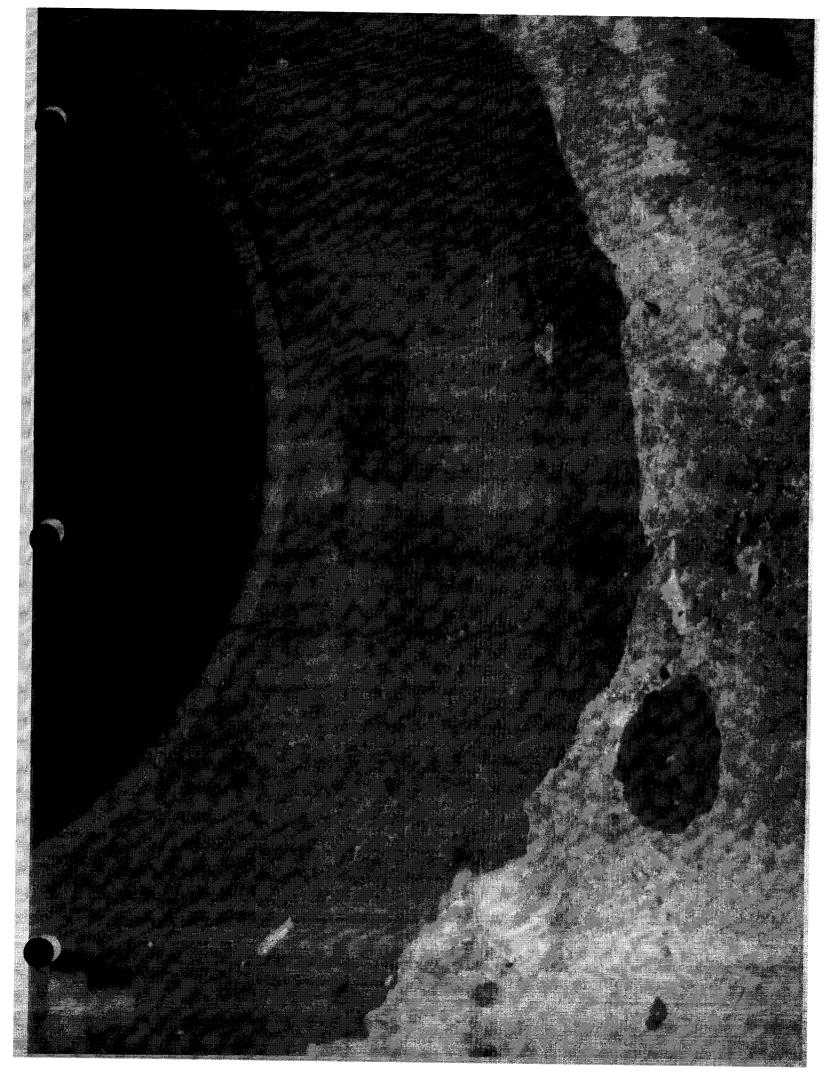
30-36-VS

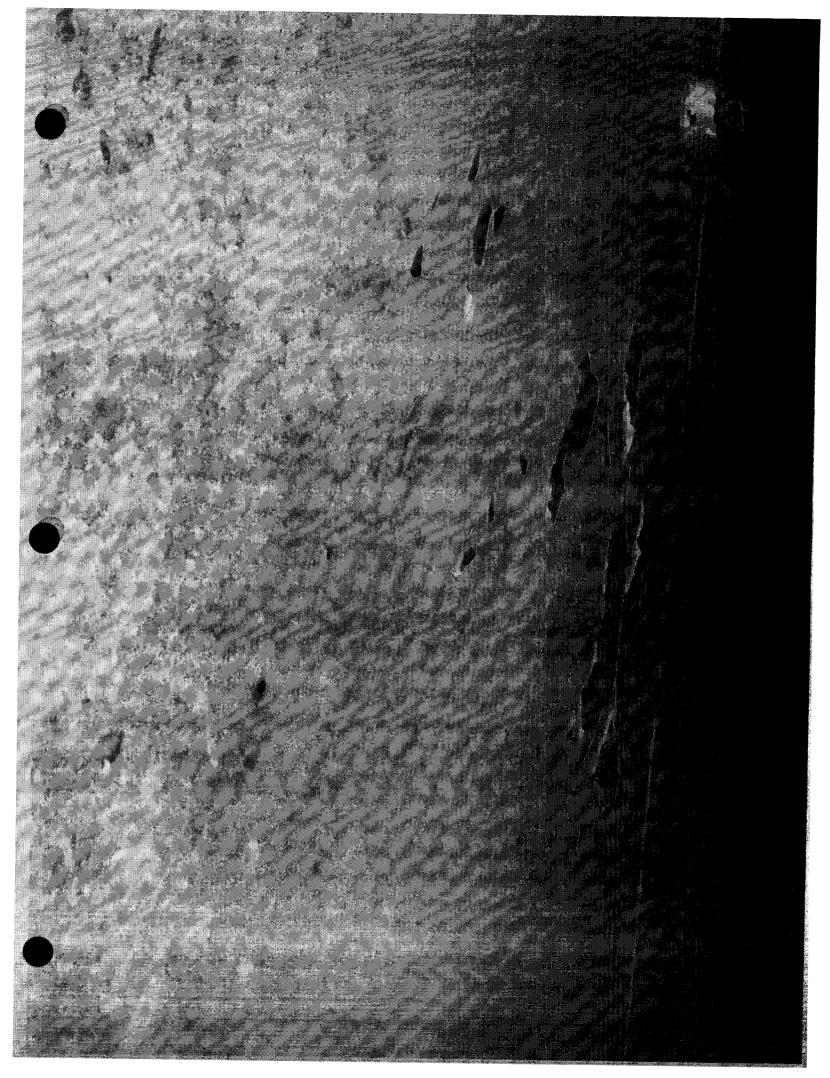
ILEAM Industrial Services, Inc.

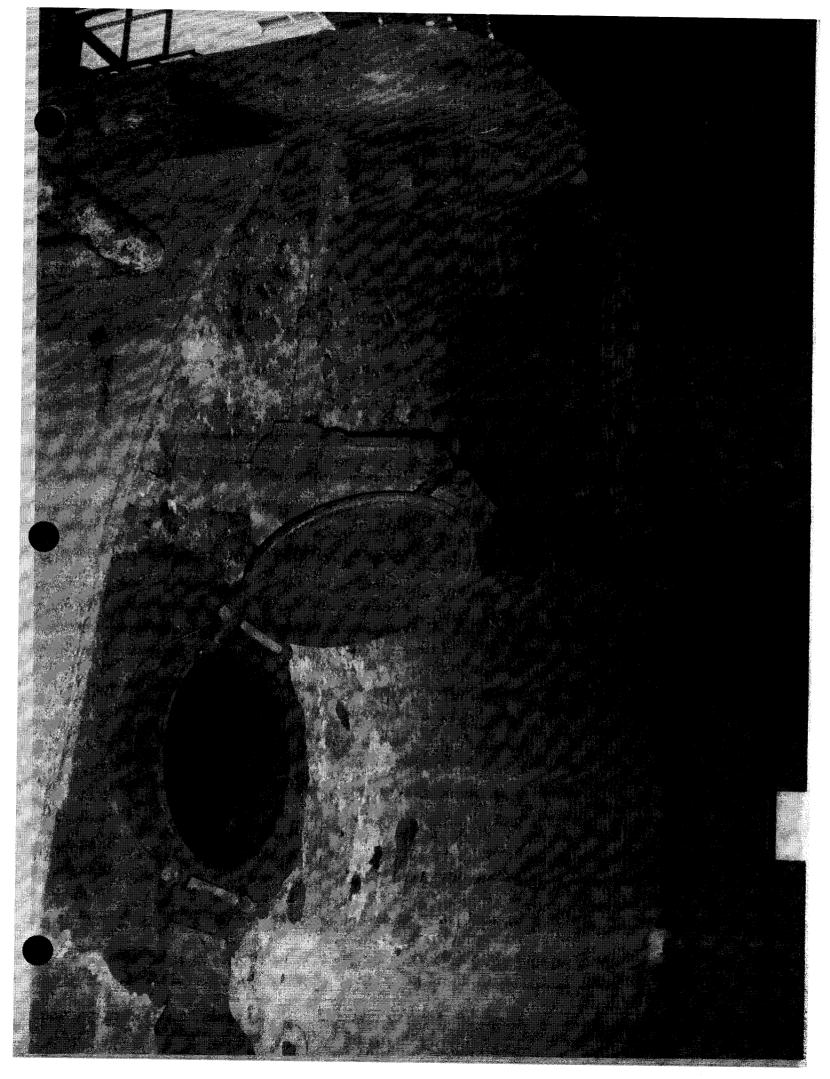


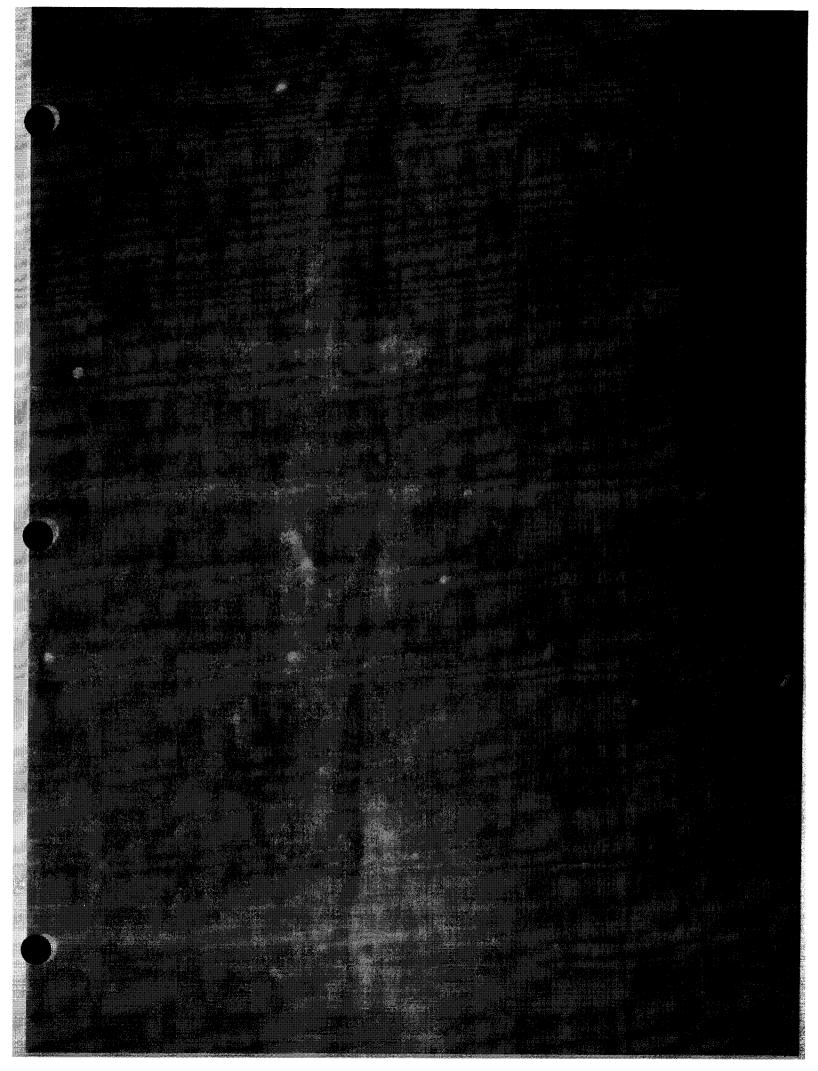


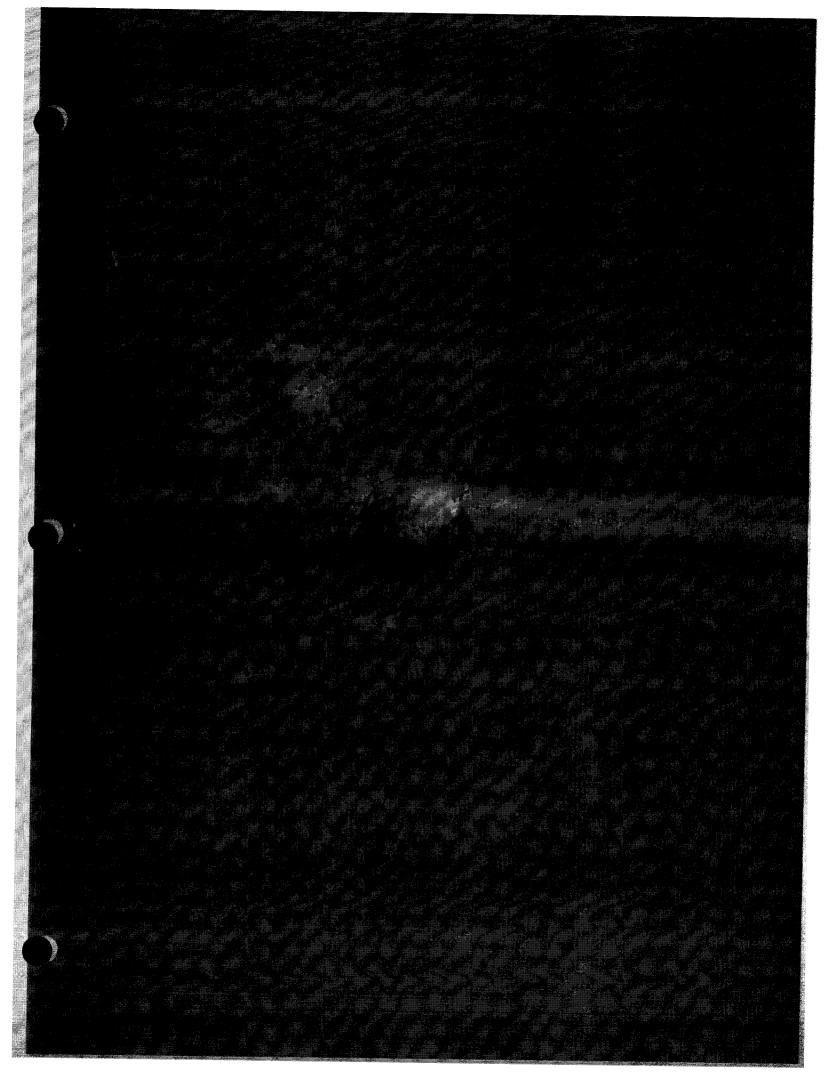


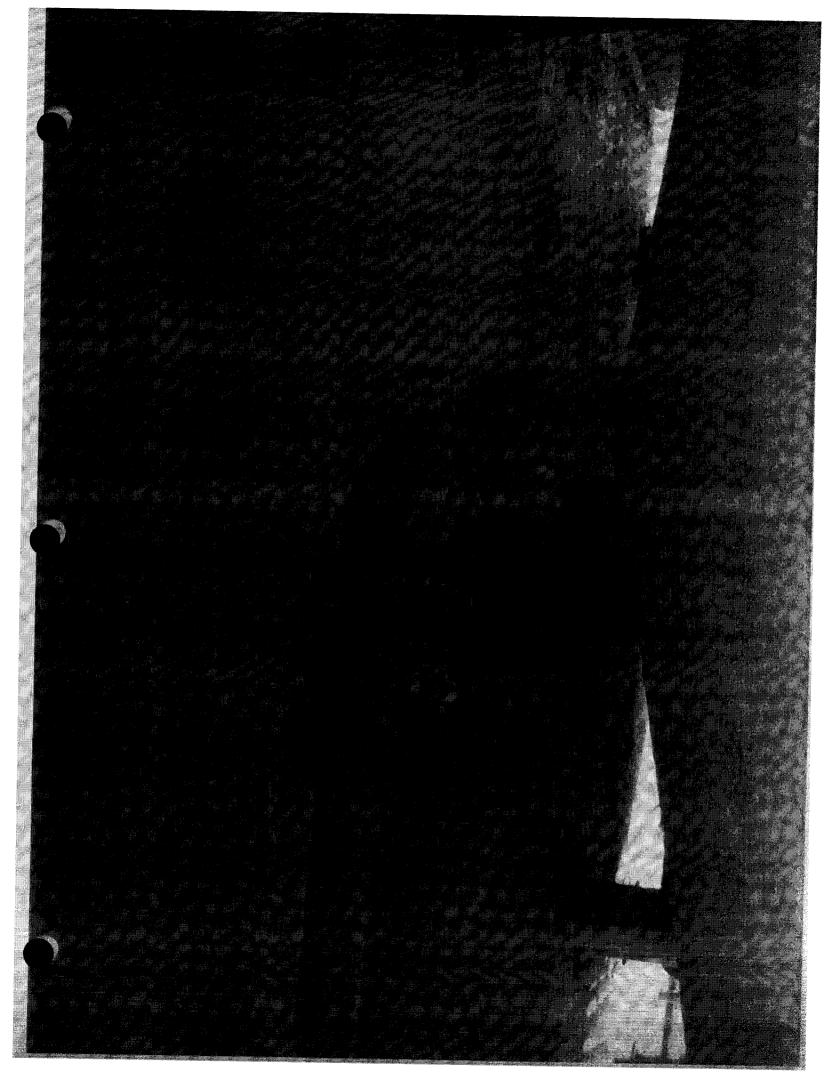


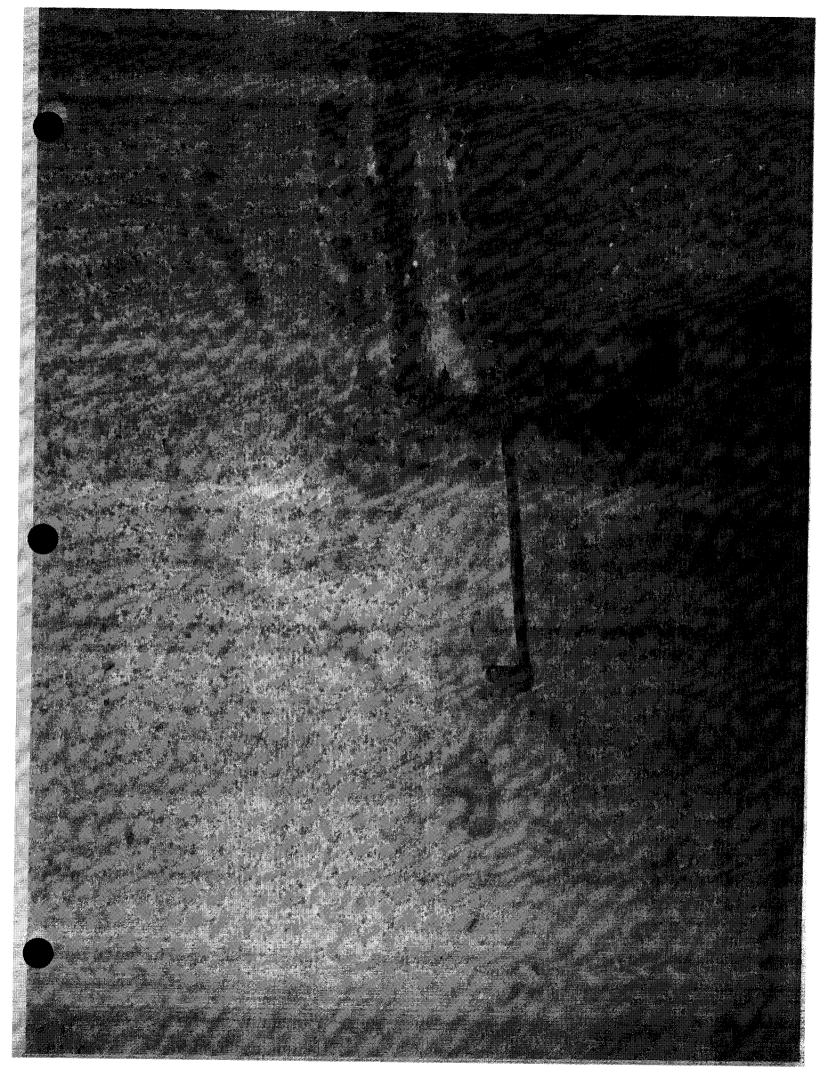














TEAM Industrial Services, Inc.



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Clean Harbors Wichita, KS facility Tank V-7 **Hazardous Waste Storage**

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-7 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-7 Hazardous Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-7 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 7-7-82. According to the drawing, the heads and shell were constructed of SA 36 Carbon Steel. The tank has an overall height of 22' 3 1/2" tall and 8' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .030" in the bottom two feet of the tank. Thickness readings were consistent with the 3/16" nominal thickness noted on the drawing leaving an approximate thickness. The welds that were accessible showed no signs of cracks or defects detrimental to use. All nozzles were clean and showed no signs of corrosion. All welds were in acceptable condition.

External:

The coating has several areas of failure throughout. No signs of damage or deterioration noted. All nozzles gasket surfaces should have old gasket material cleaned off prior to installing new.



Bottom Head:

Internal inspection:

General pitting was noted throughout the bottom head with minimal depths. The nozzles were clean with no signs of deterioration. The nozzle weld is in good condition. Thickness readings were consistent with 1/4" SA36 Carbon Steel noted on drawing.

External:

Coating has several coating failures. There are small blisters under the coating that have corrosion attacking the shell. No signs of leakage around nozzles.

Top Head:

External inspection only:

The head has several coating failures. There are small blisters under the coating that have corrosion attacking the shell. Thickness readings were consistent with ¼" SA36 Carbon Steel noted on drawing. See drawings for thickness readings. The pressure gage was broken and unreadable

Tank vertical supports:

The supports have a concrete coating that show signs that repairs have been made to fix spalling, chips and cracks. No grounding cable is attached to vessel.

Recommendations:

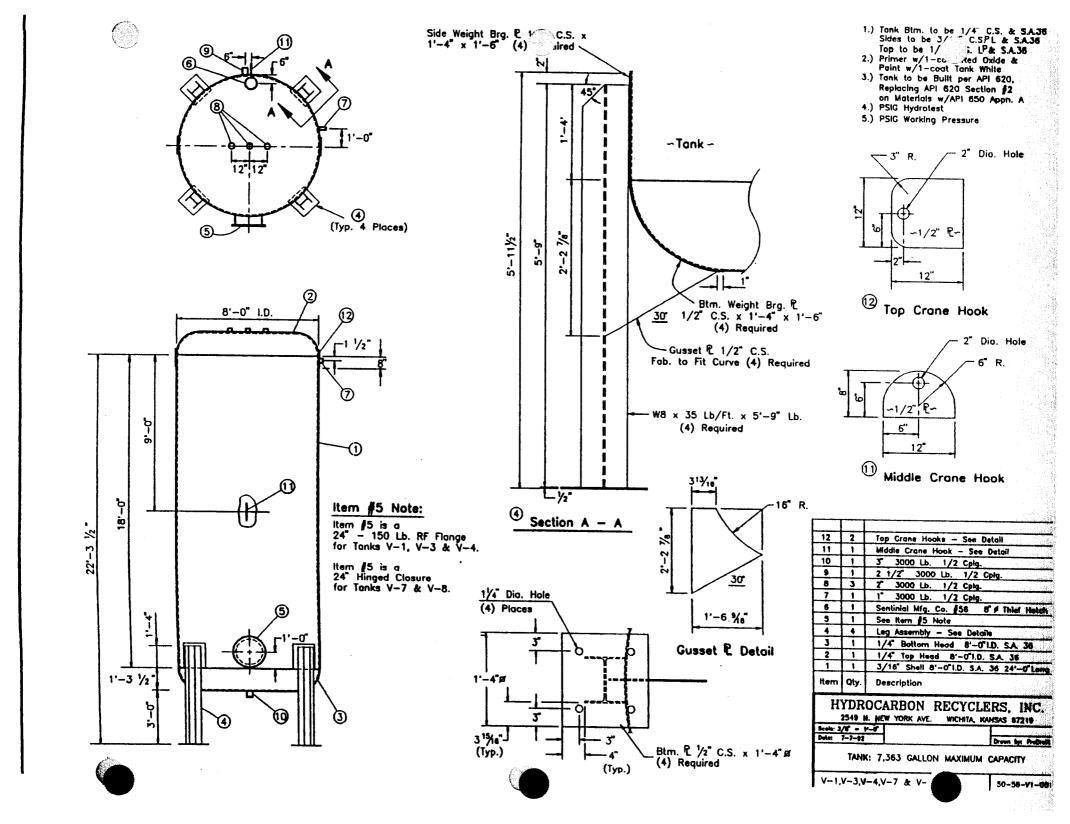
Complete coating repairs.

Attach grounding cable.

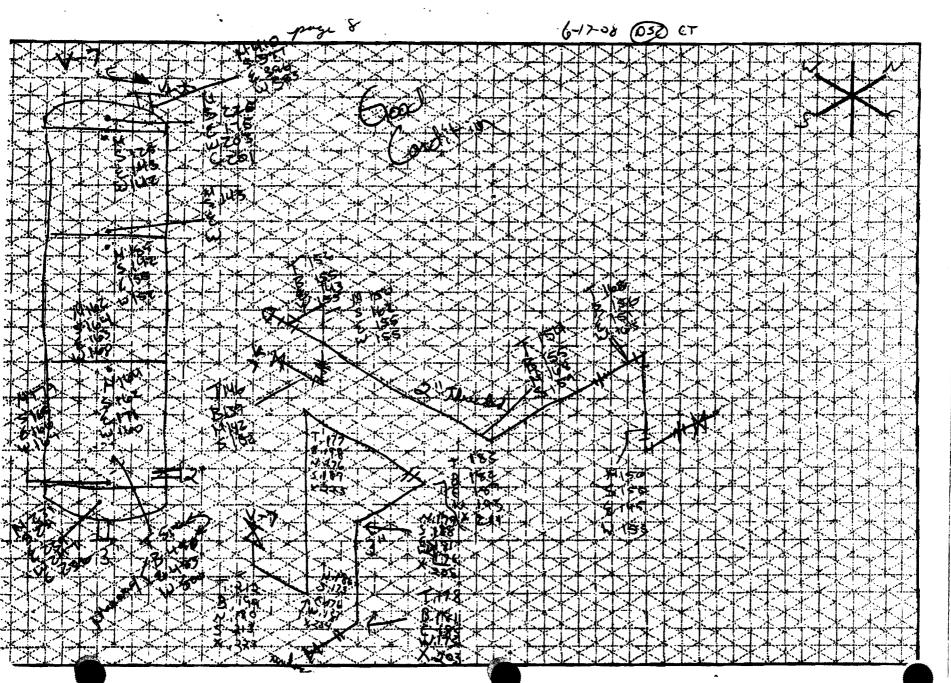
Replace gasket on to inspection hatch.

Thickness readings taken by David Zeller and Ethan Towne 6-17-08.

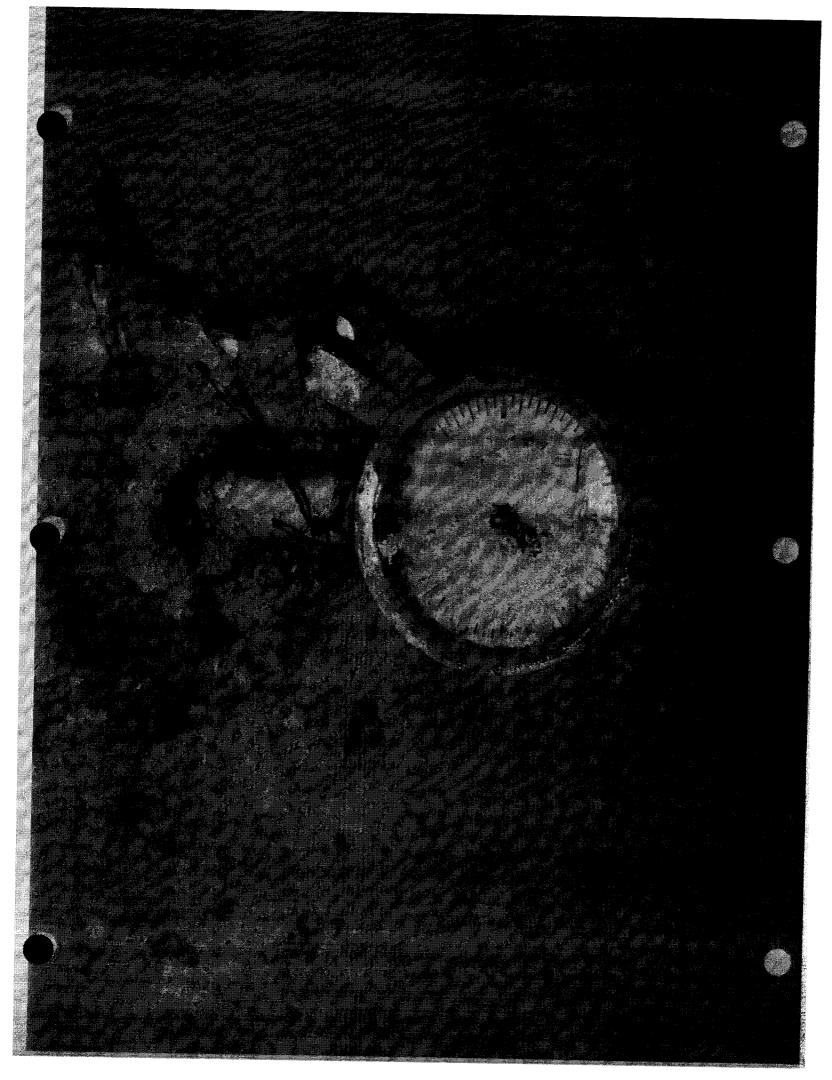
API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.

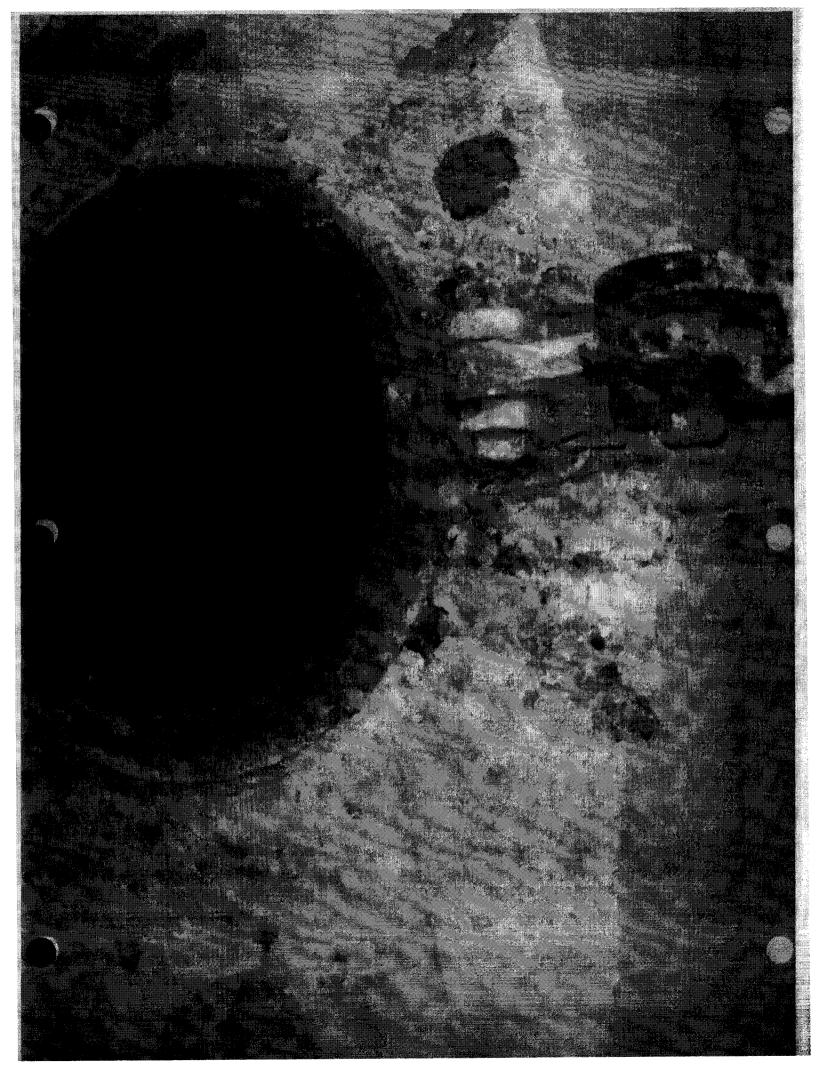


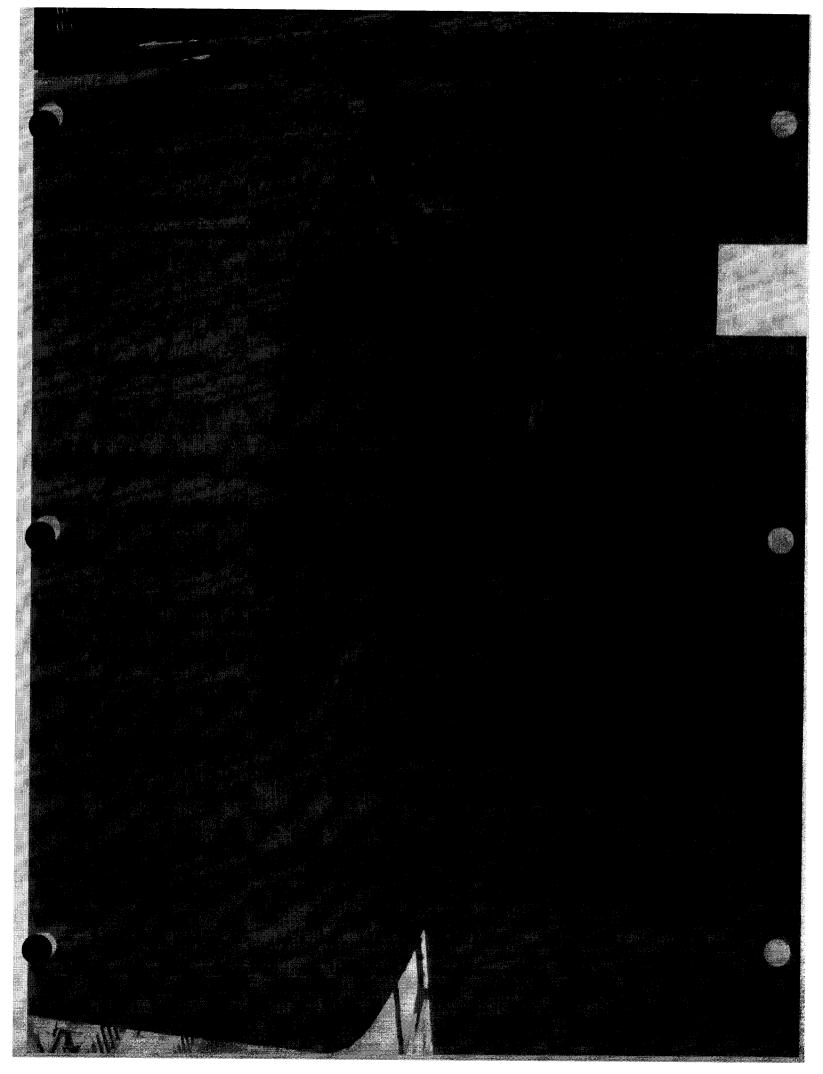
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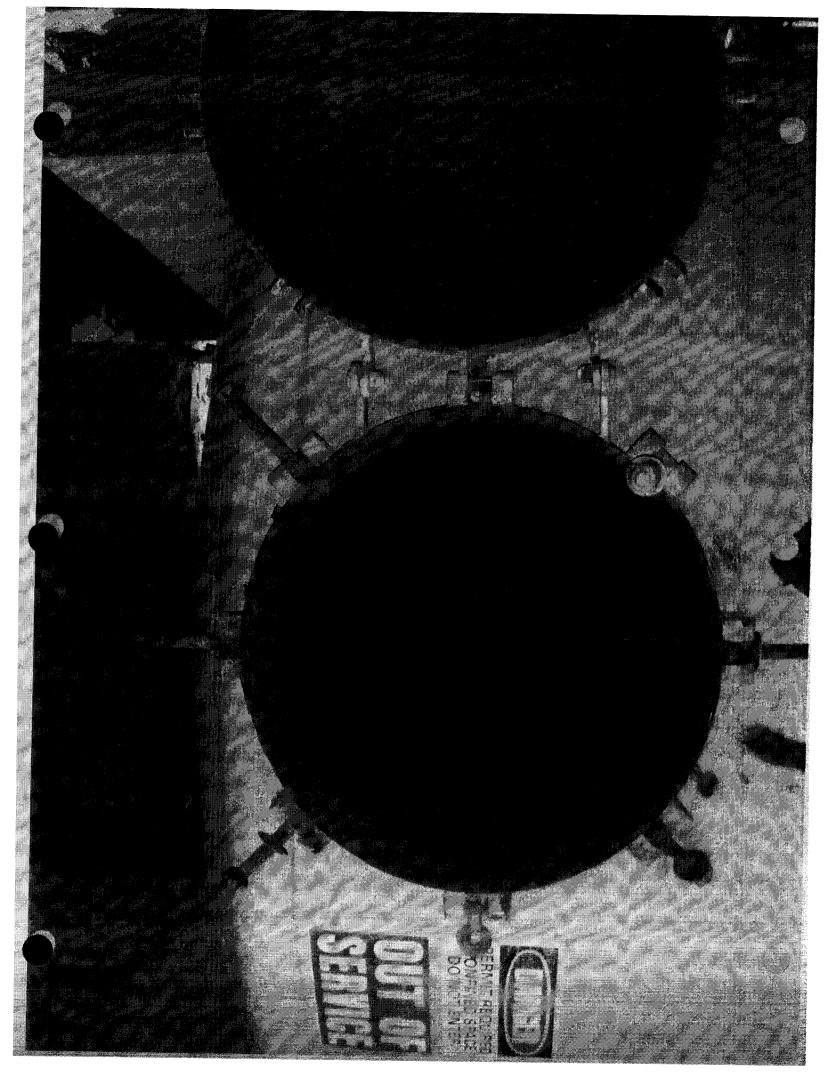


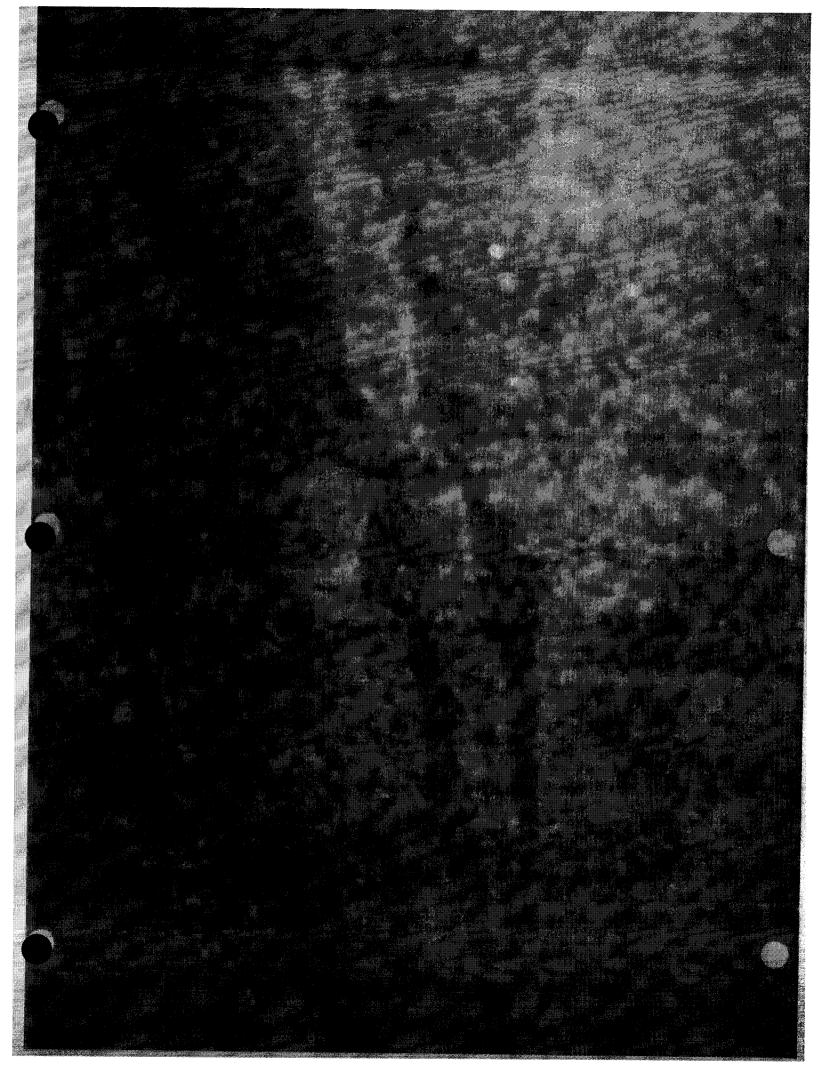


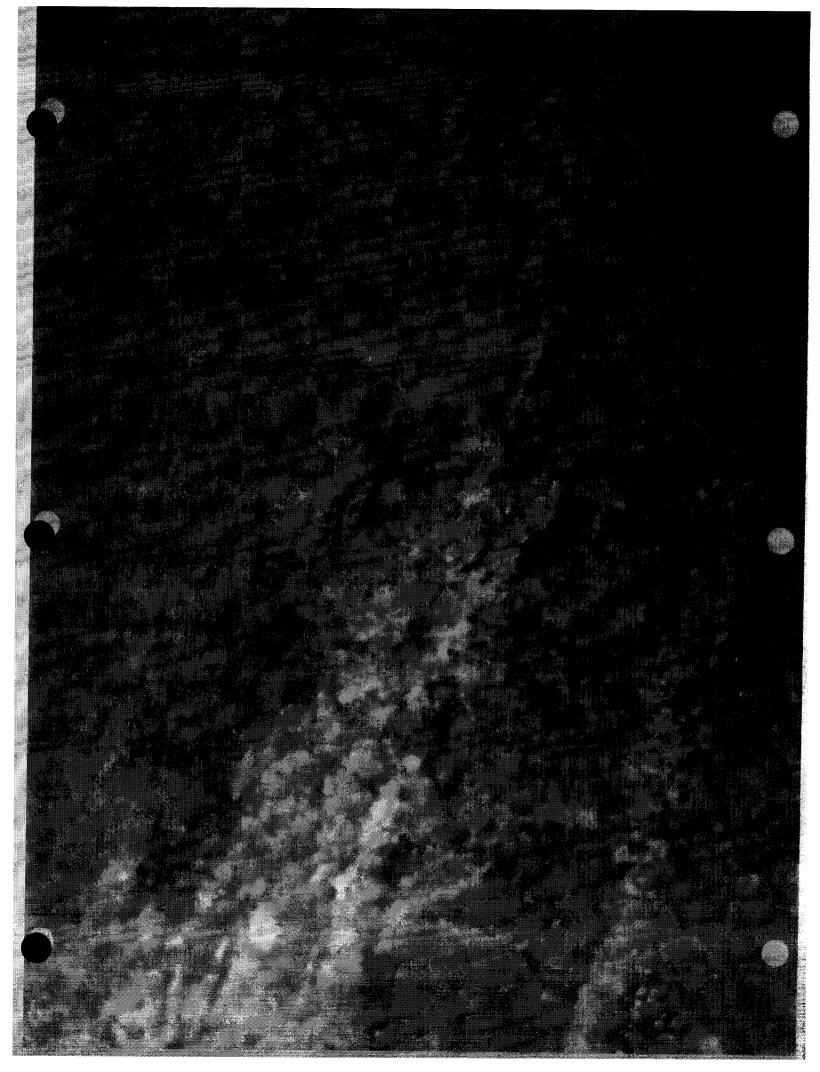


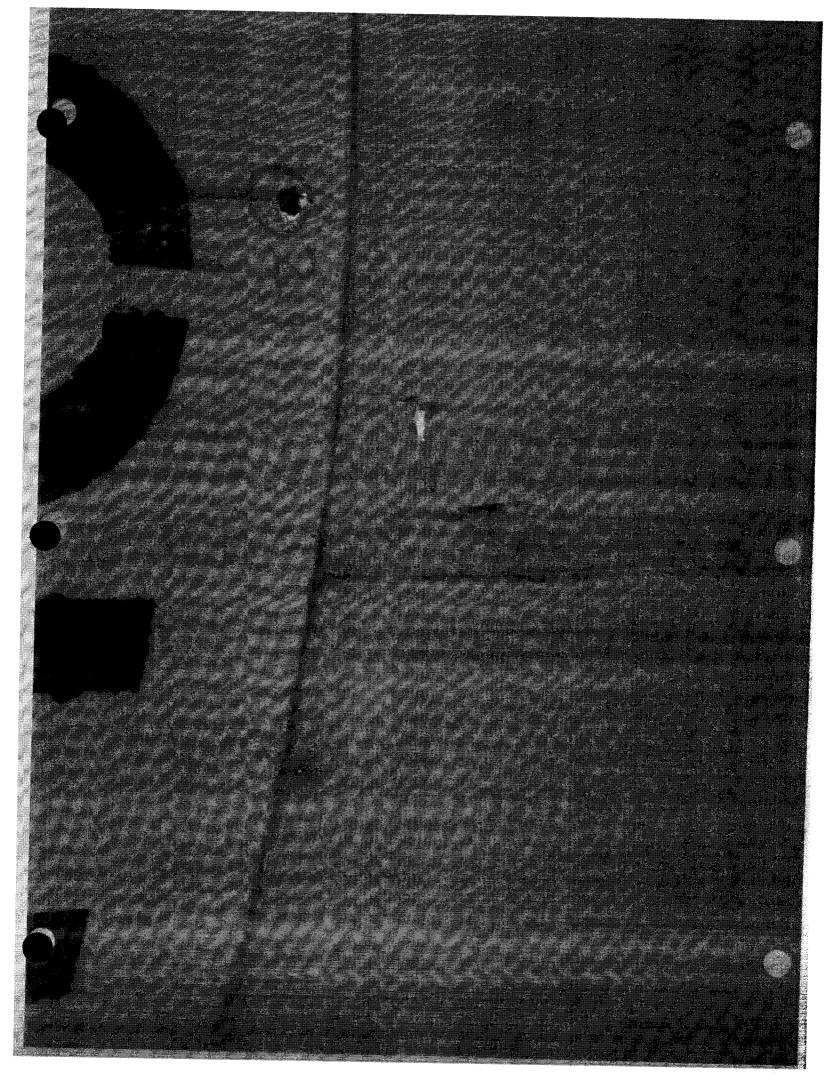


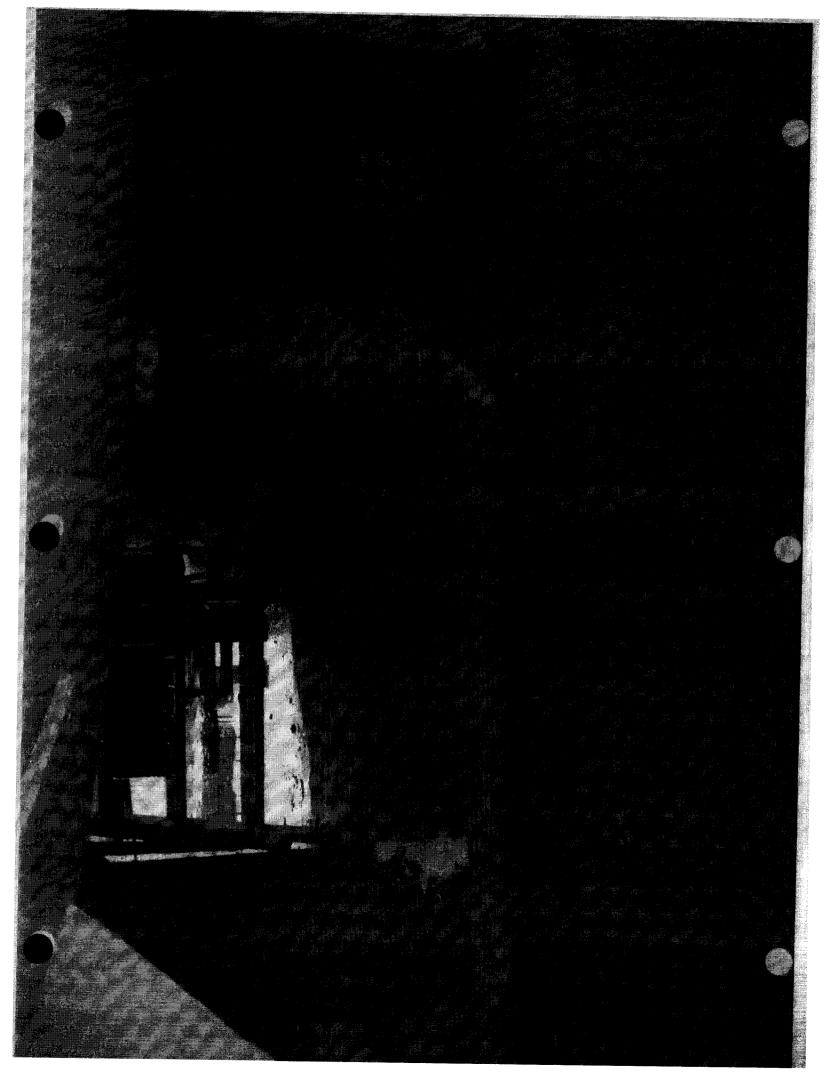












corrosion on inside of hatch





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Clean Harbors Wichita, KS facility Tank V-8 **Hazardous Waste Storage**

Scope:

Conduct and internal and external visual and ultrasonic thickness evaluation of the inspection of Tank V-8 in accordance with the API 653 Code regulations and guidelines.

Summary:

Tank V-8 Hazardous Waste storage tank was visually inspected internally and externally. Thickness readings were taken externally. The design data pertaining to tank V-8 was not available and no nameplate was attached to the vessel.

The tank drawing has a construction date of 7-7-82. According to the drawing, the heads and shell were constructed of SA 36 Carbon Steel. The tank has an overall height of 22' 3 1/2" tall and 8' diameter. The design temperature and pressure were not noted. The specific gravity was not noted.

Previous inspection records were not available for viewing.

See attached pictures

Shell Inspection:

Internal:

The shell showed corrosion with depths of .010" to .030" in the bottom two feet of the tank. Thickness readings were consistent with the 3/16" nominal thickness noted on the drawing leaving an approximate thickness. The welds that were accessible showed no signs of cracks or defects detrimental to use. All nozzles were clean and showed no signs of corrosion. All welds were in acceptable condition.

External:

The coating has several areas of failure throughout. The coating has blisters with active corrosion attacking the shell. All nozzles gasket surfaces should have old gasket material cleaned off prior to installing new.



Bottom Head:

Internal inspection:

General pitting was noted throughout the bottom head with minimal depths. The nozzles were clean with no signs of deterioration. The nozzle weld is in good condition. Thickness readings were consistent with ¼" SA36 Carbon Steel noted on drawing.

External:

Coating has several coating failures. There are small blisters under the coating that have corrosion attacking the shell. No signs of leakage around nozzles.

Top Head:

External inspection only:

The head has several coating failures. There are small blisters under the coating that have corrosion attacking the shell. Thickness readings were consistent with ¼" SA36 Carbon Steel noted on drawing. See drawings for thickness readings. The inspection hatch has severe corrosion on the nozzle of the hatch. Thickness readings were not able to be obtained due to corrosion and geometry.

Tank vertical supports:

The supports have a concrete coating that show signs that repairs have been made to fix spalling, chips and cracks.

Recommendations:

Complete coating repairs.

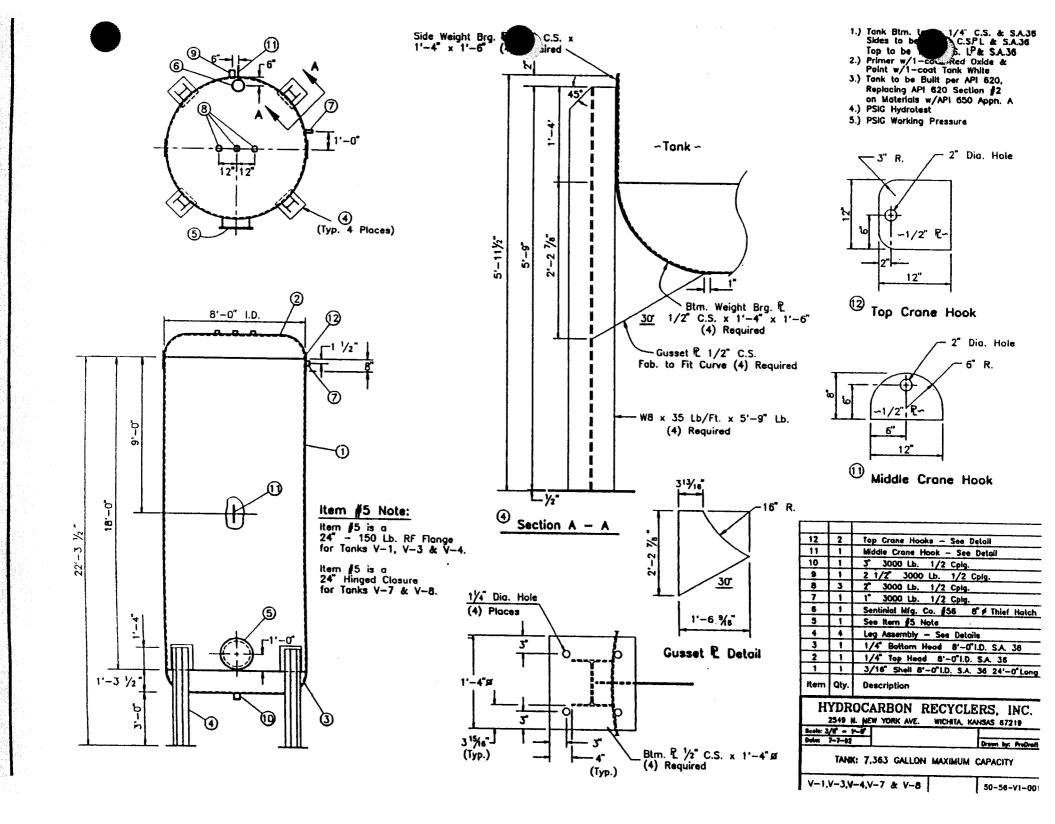
Replace pressure gage on top of vessel.

Replace gasket on to inspection hatch.

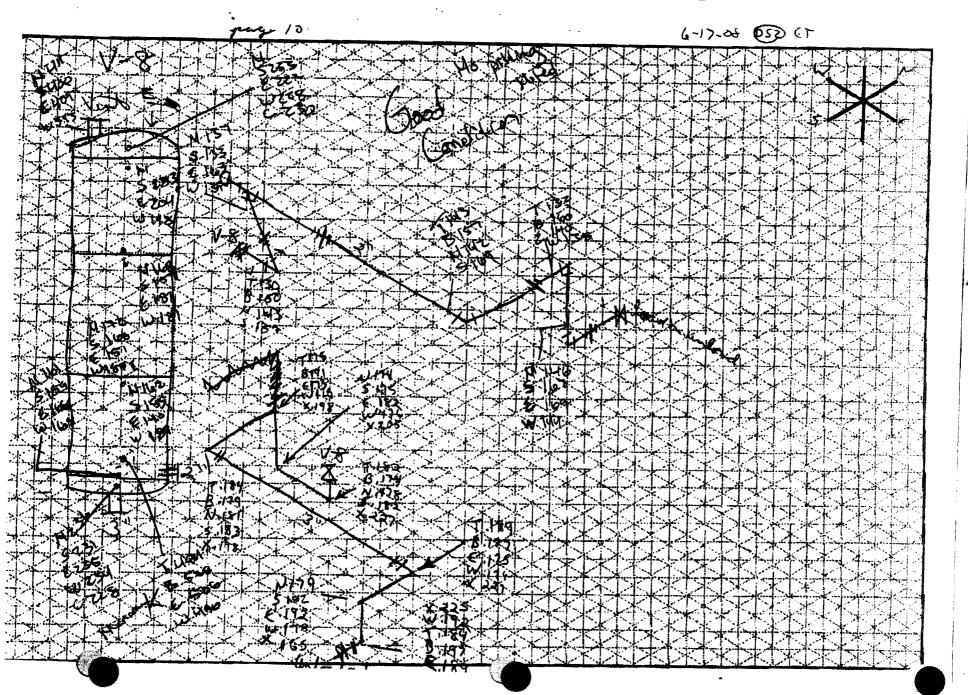
Thickness readings taken by David Zeller and Ethan Towne 6-17-08.

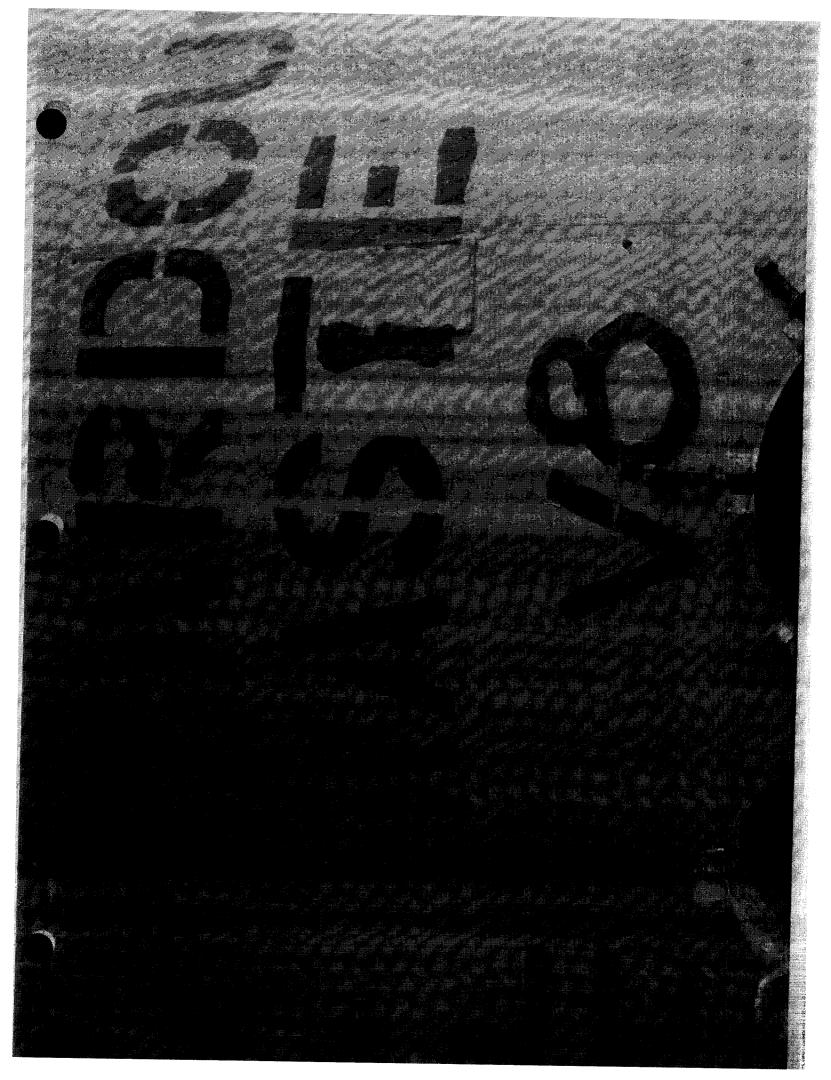
API inspection completed by Roger Zeller Reviewed by William Shadwick, API 653 inspector.





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Frage Ston on Frage 1



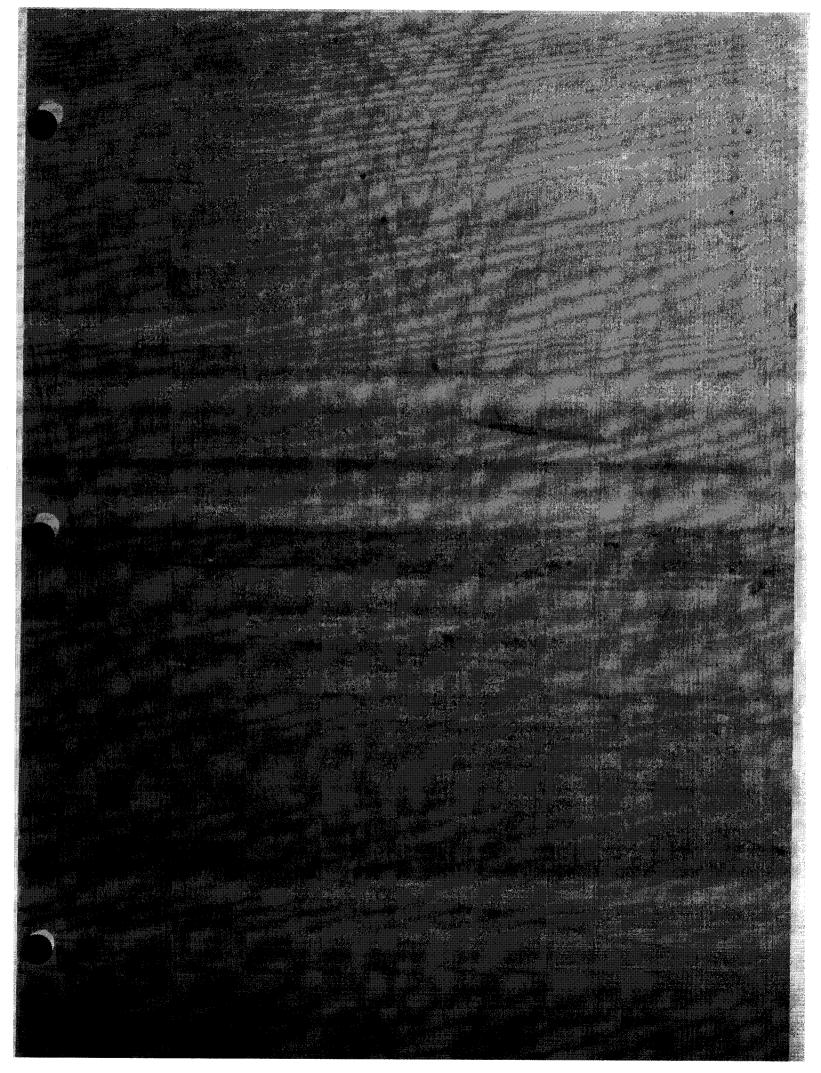


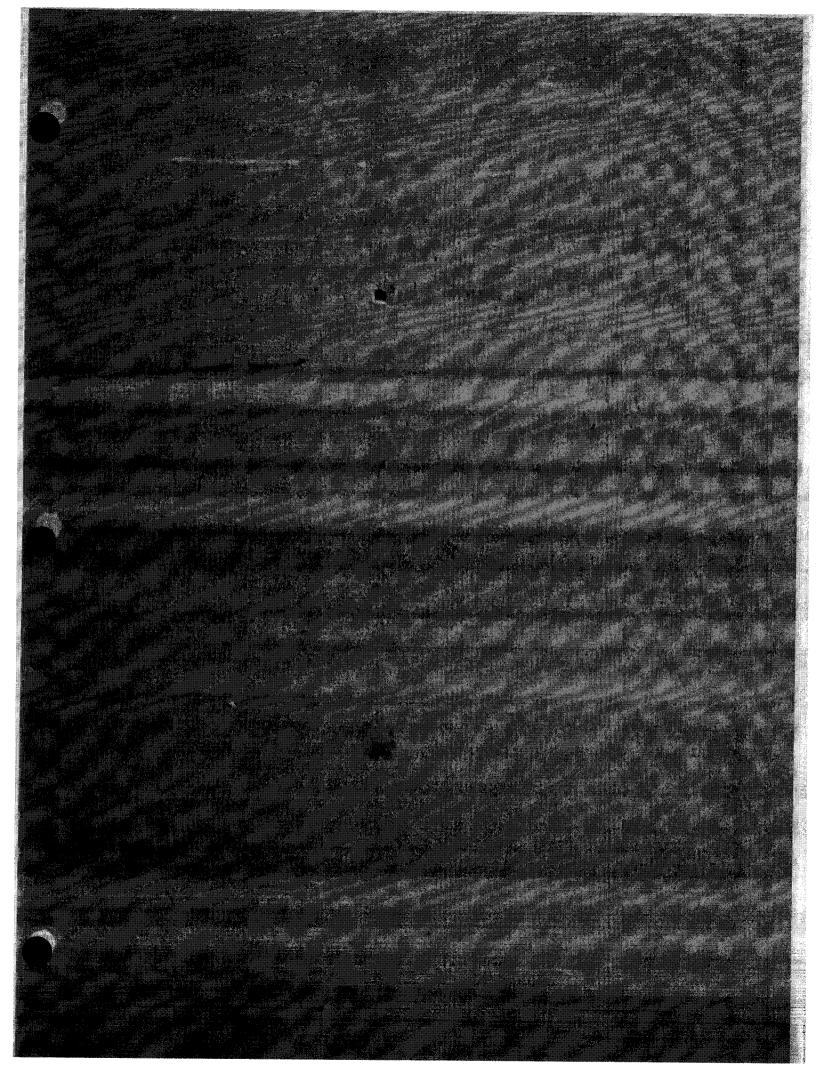


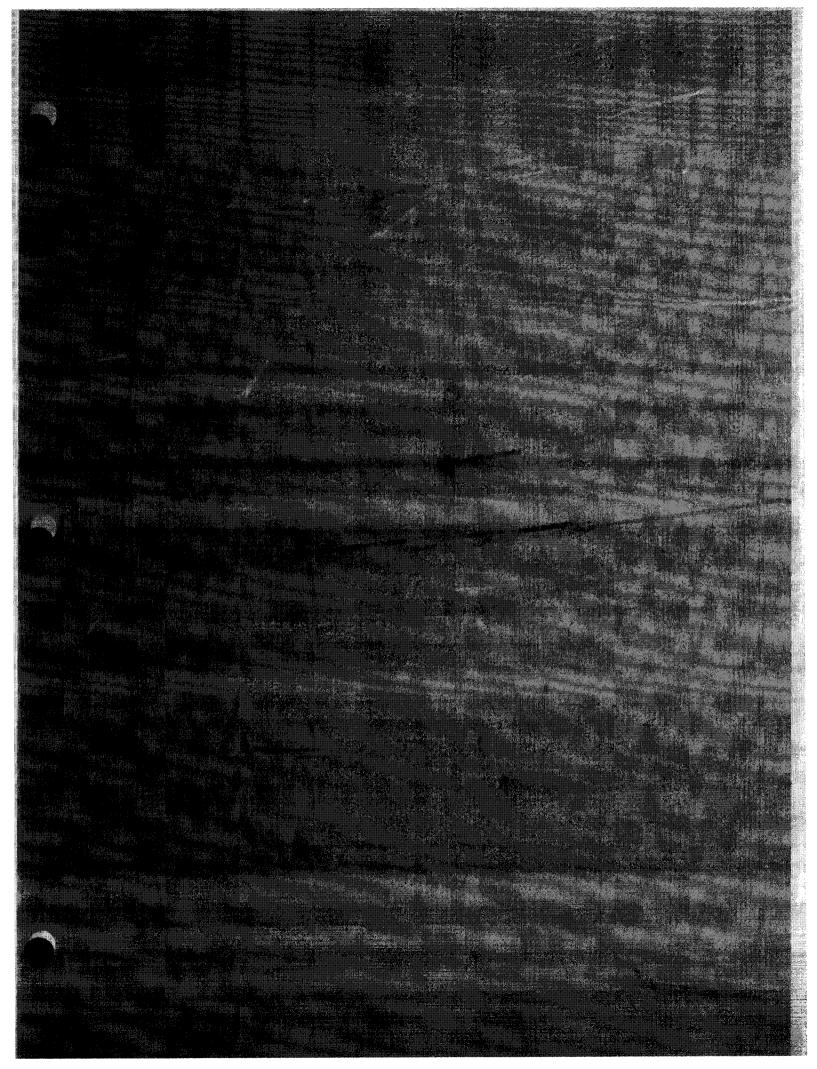


severál paint blisters with severe corrosion under bister

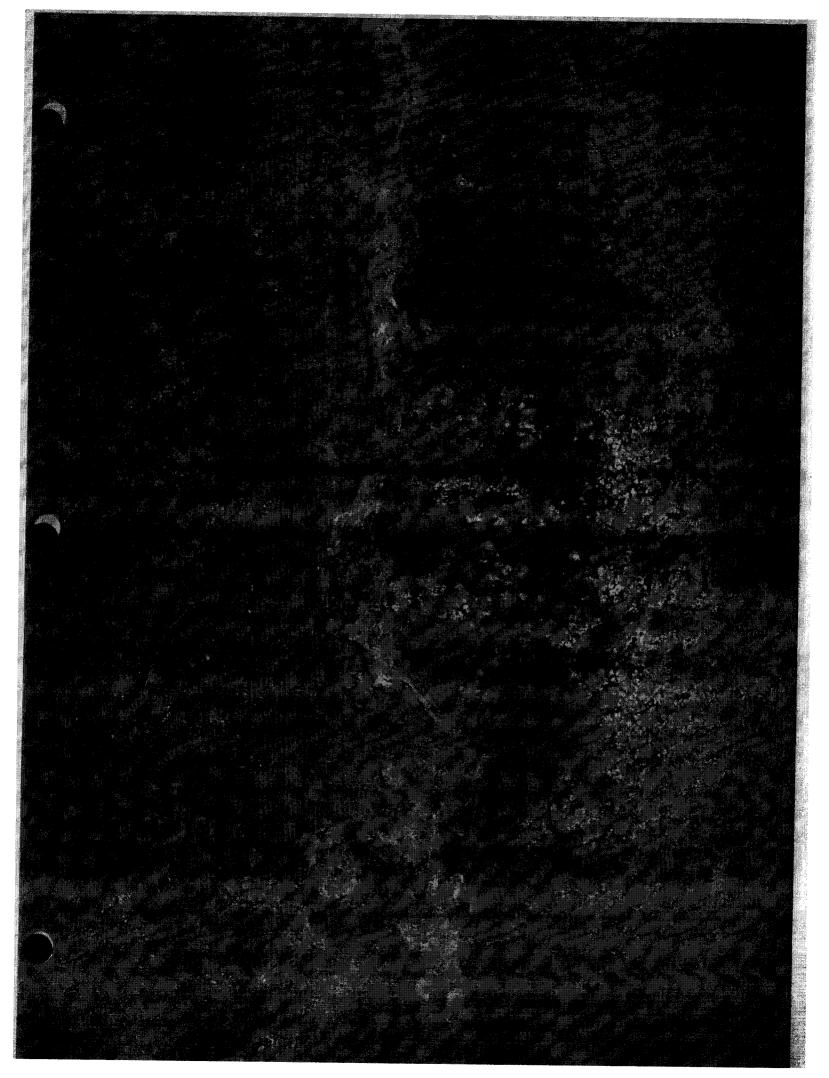
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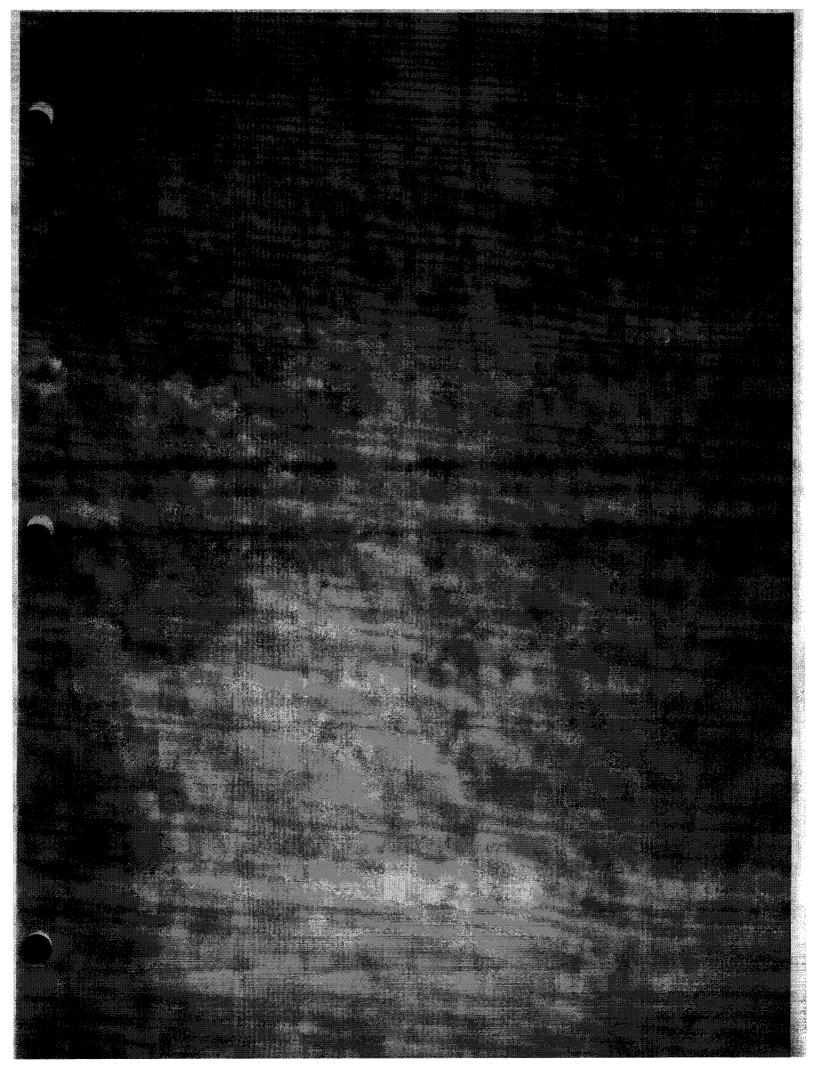


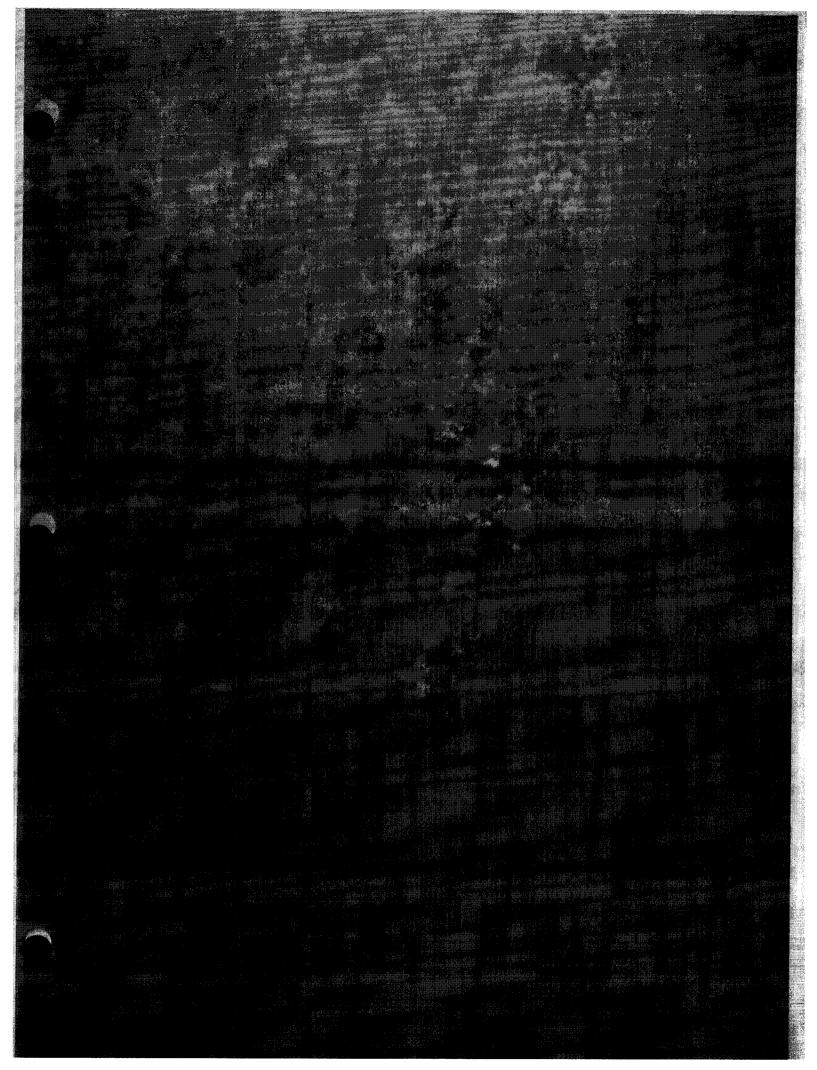




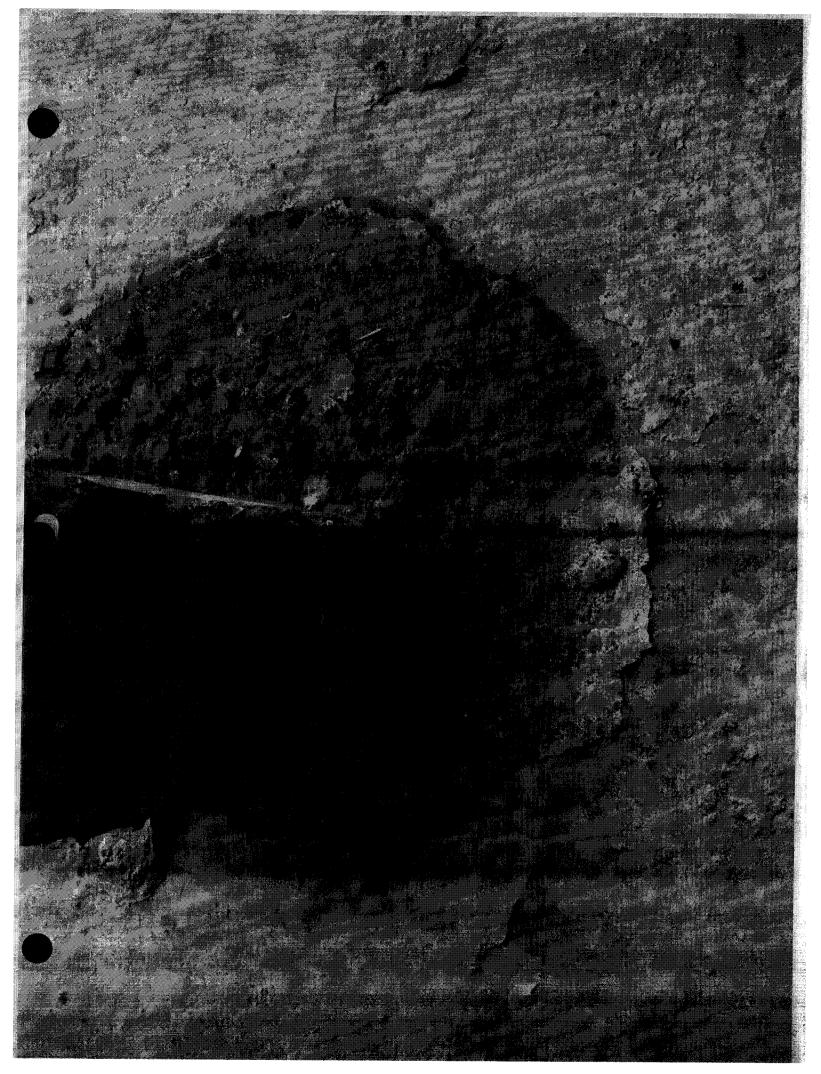














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Clean Harbors Wichita, KS facility Piping Inspection

Scope:

Conduct and visual and ultrasonic thickness evaluation of the inspection of piping associated with hazardous storage tanks at the Wichita, KS facility in accordance with the API 570 Code regulations and guidelines.

Summary:

The piping associated with the transfer of hazardous waste from tanks V-1 through V-8 was visually inspected and ultrasonic thickness testing was completed.

The inlet piping approximately four feet upstream from the pump situated in the north/south direction has two welds that do not have an acceptable amount of weld build up. The rest of the piping welds are in acceptable condition.

The piping is supported in a pipe rack and acceptable ground supports.

No leaks are noted during inspection.

Thickness readings are consistent with nominal thickness for respected sizes. See drawings for thickness readings.

The piping coating is deteriorated through out the unit.

Recommendations:

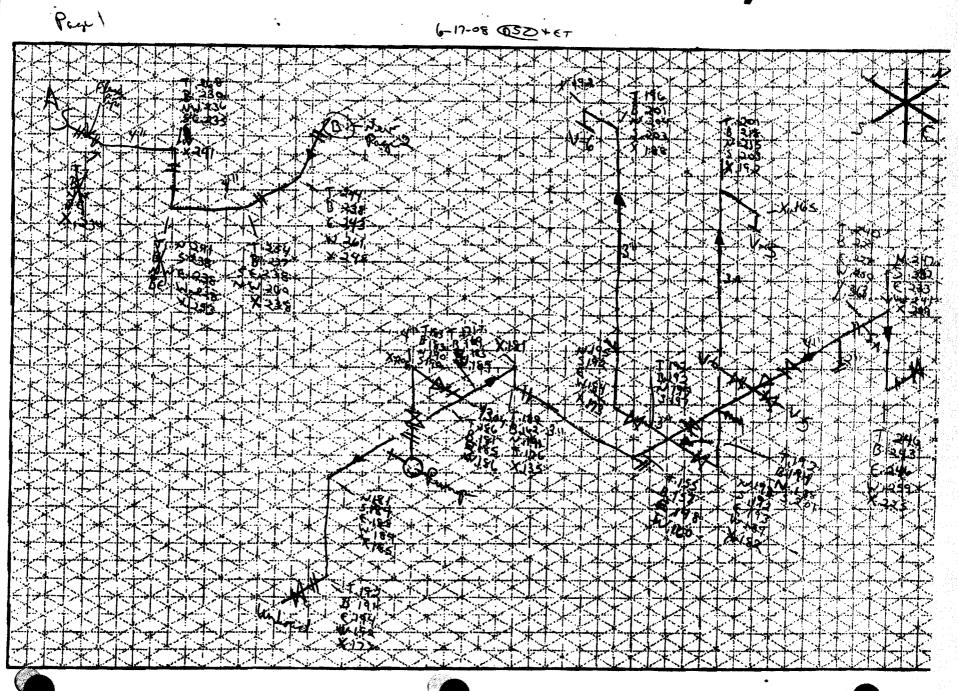
Complete welds that have insufficient weld build up on the suction side of the pump.

Recommend a coating be put on the piping for protection from environmental conditions.

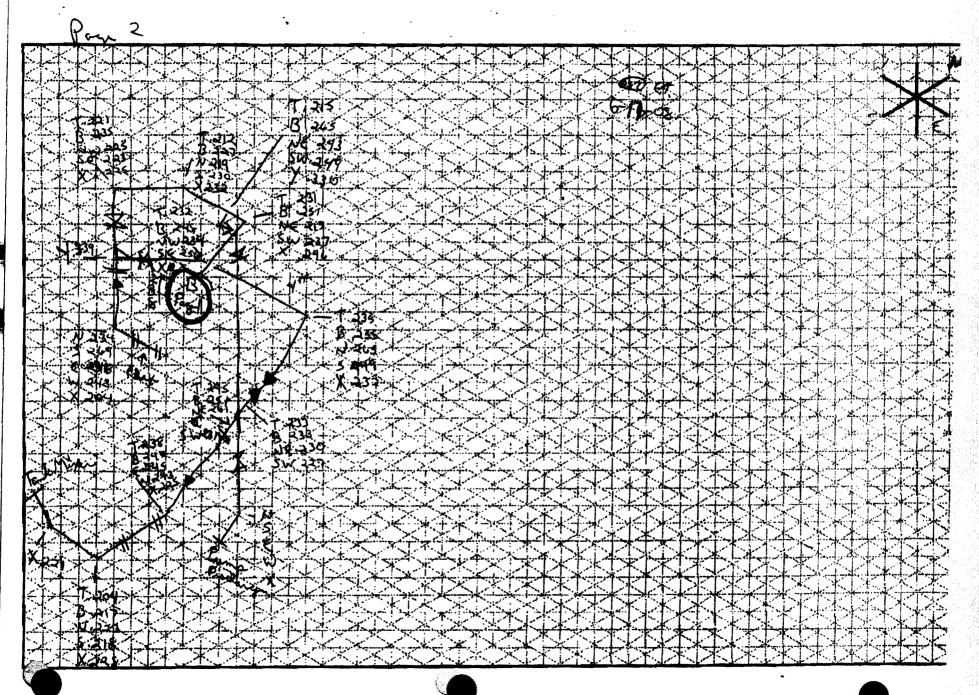
Thickness readings taken by David Zeller and Ethan Towne on 6-17-08 through 6-18-08.

API inspection completed by Roger Zeller Reviewed by William Shadwick, API 570 inspector.

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